

Fig. 1

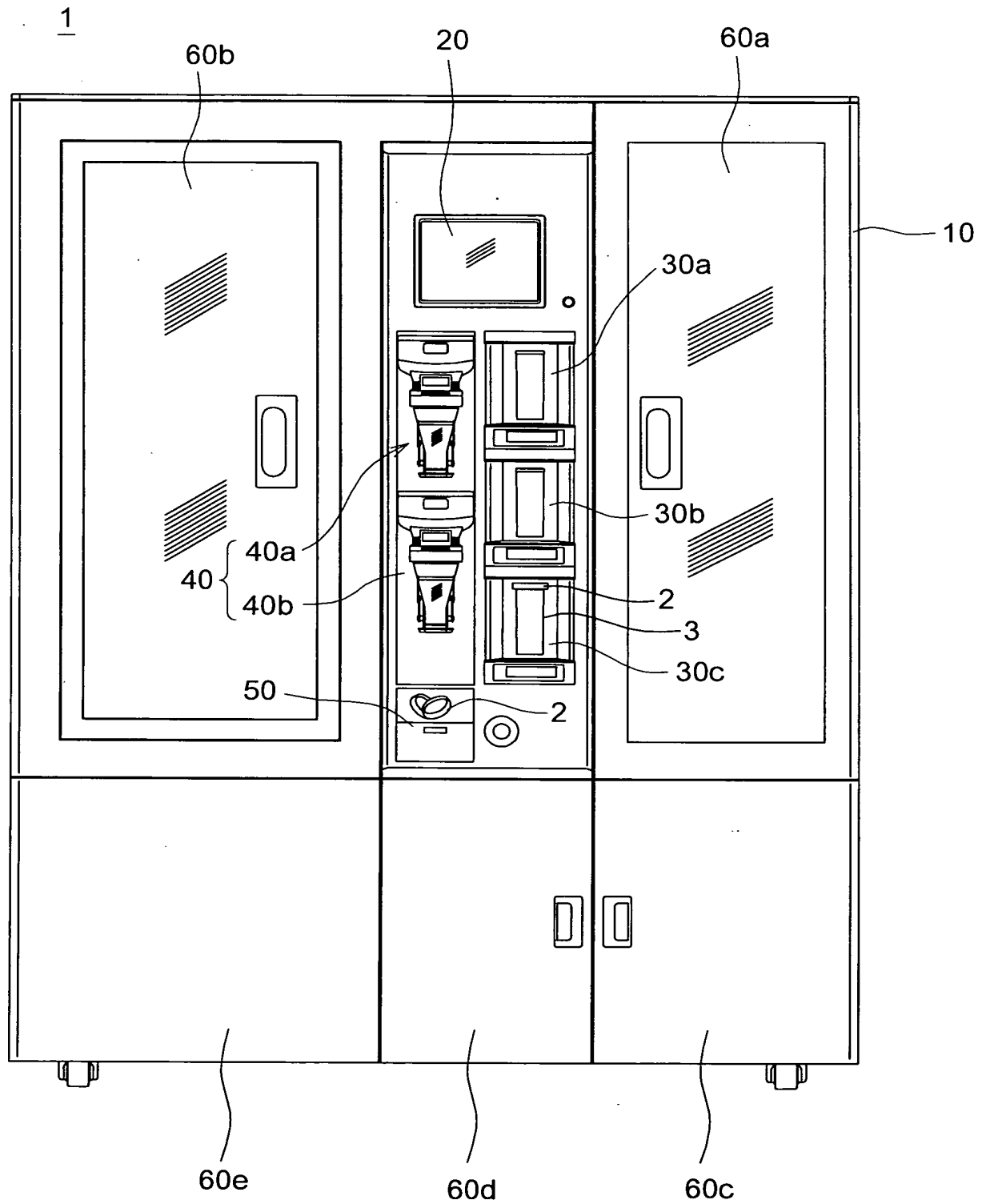


Fig.2

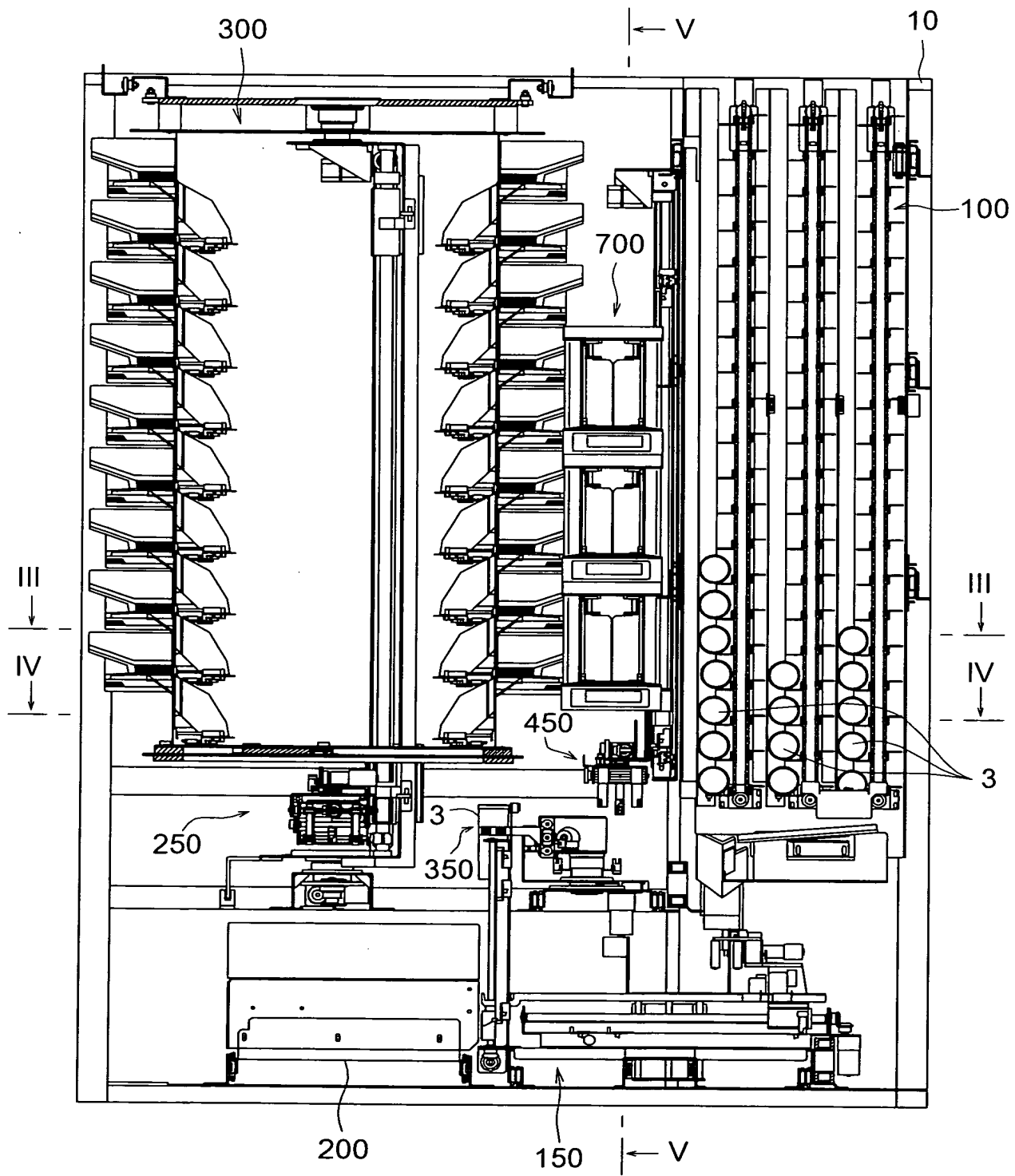


Fig.3

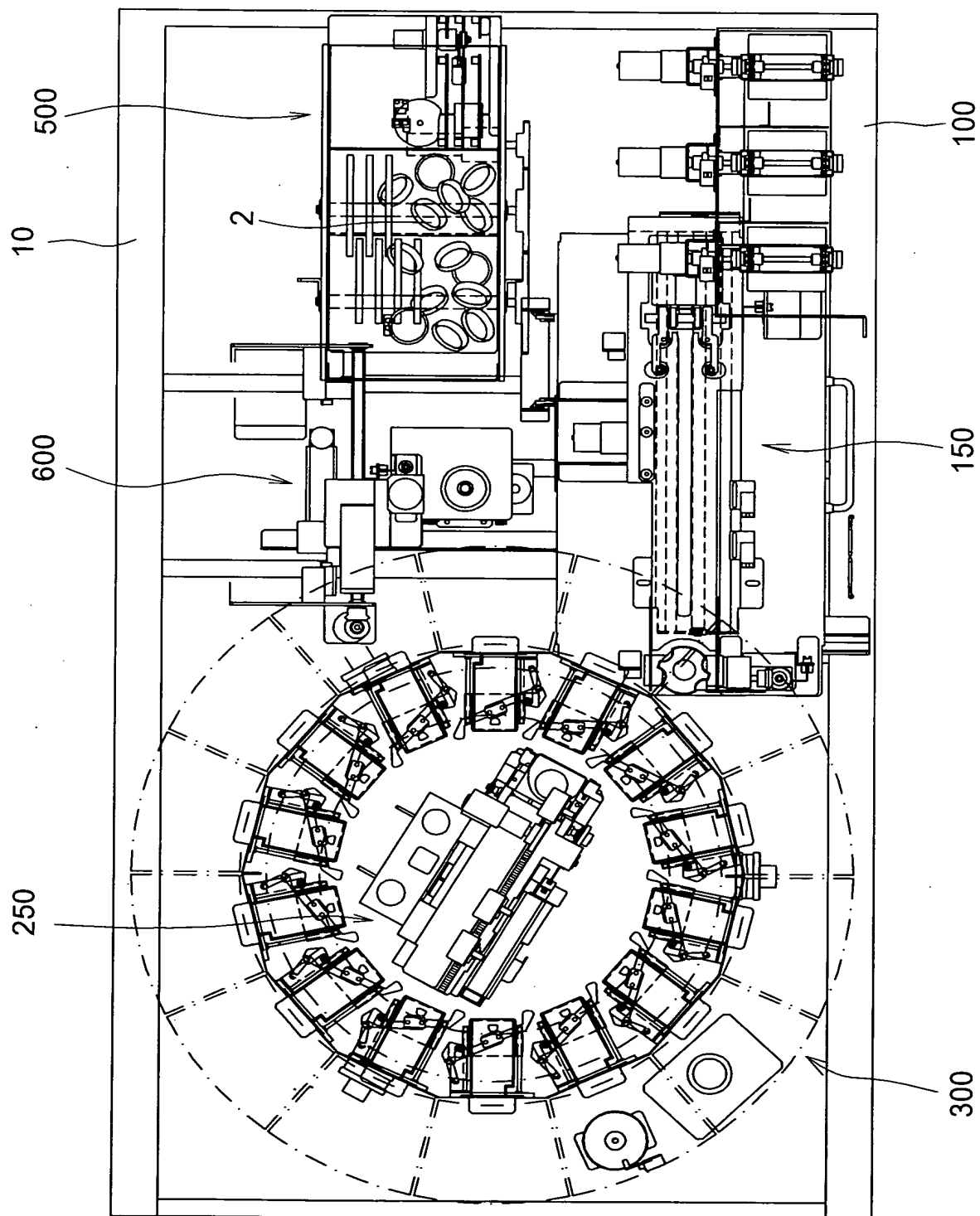
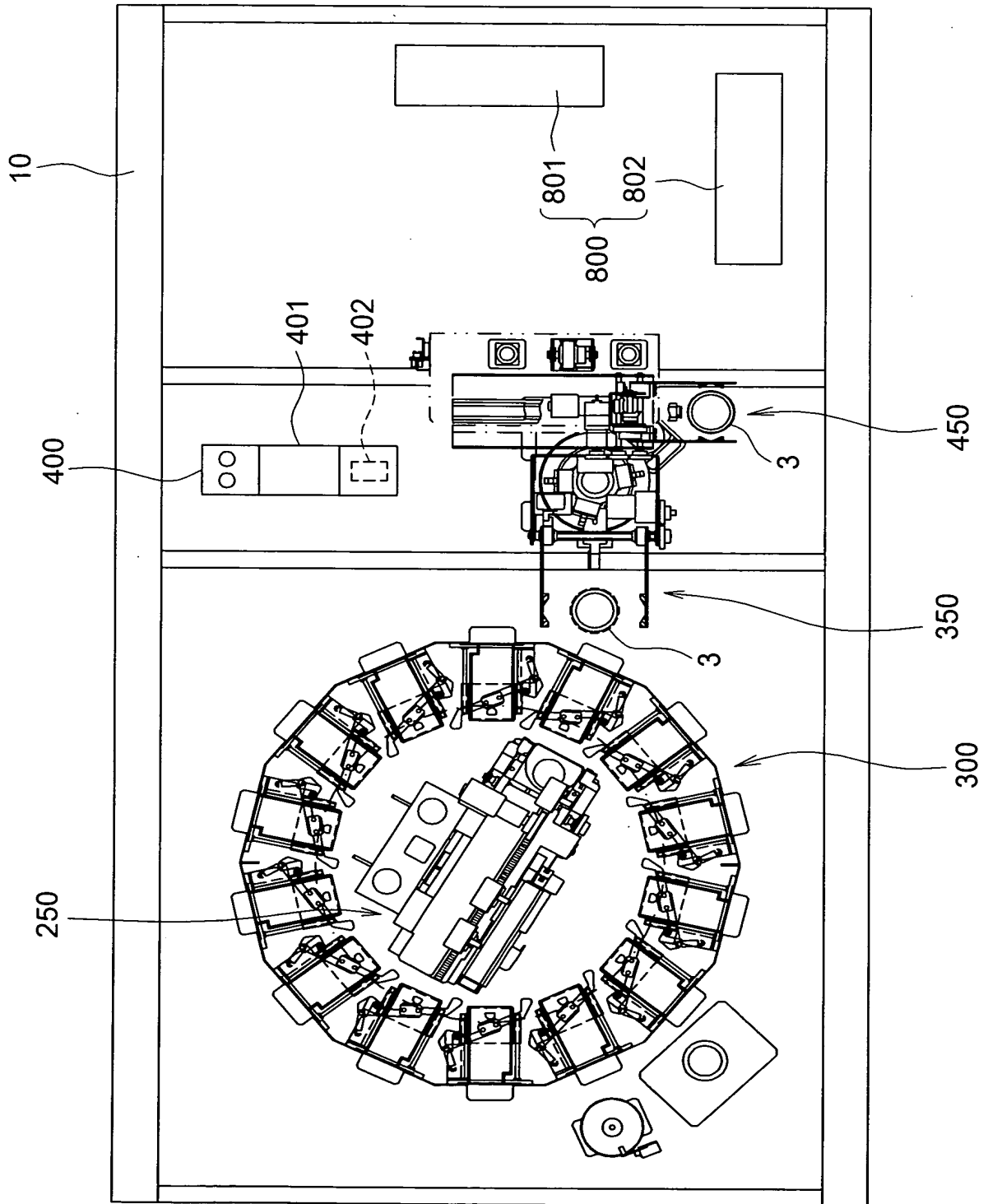


Fig.4



*Fig.5*

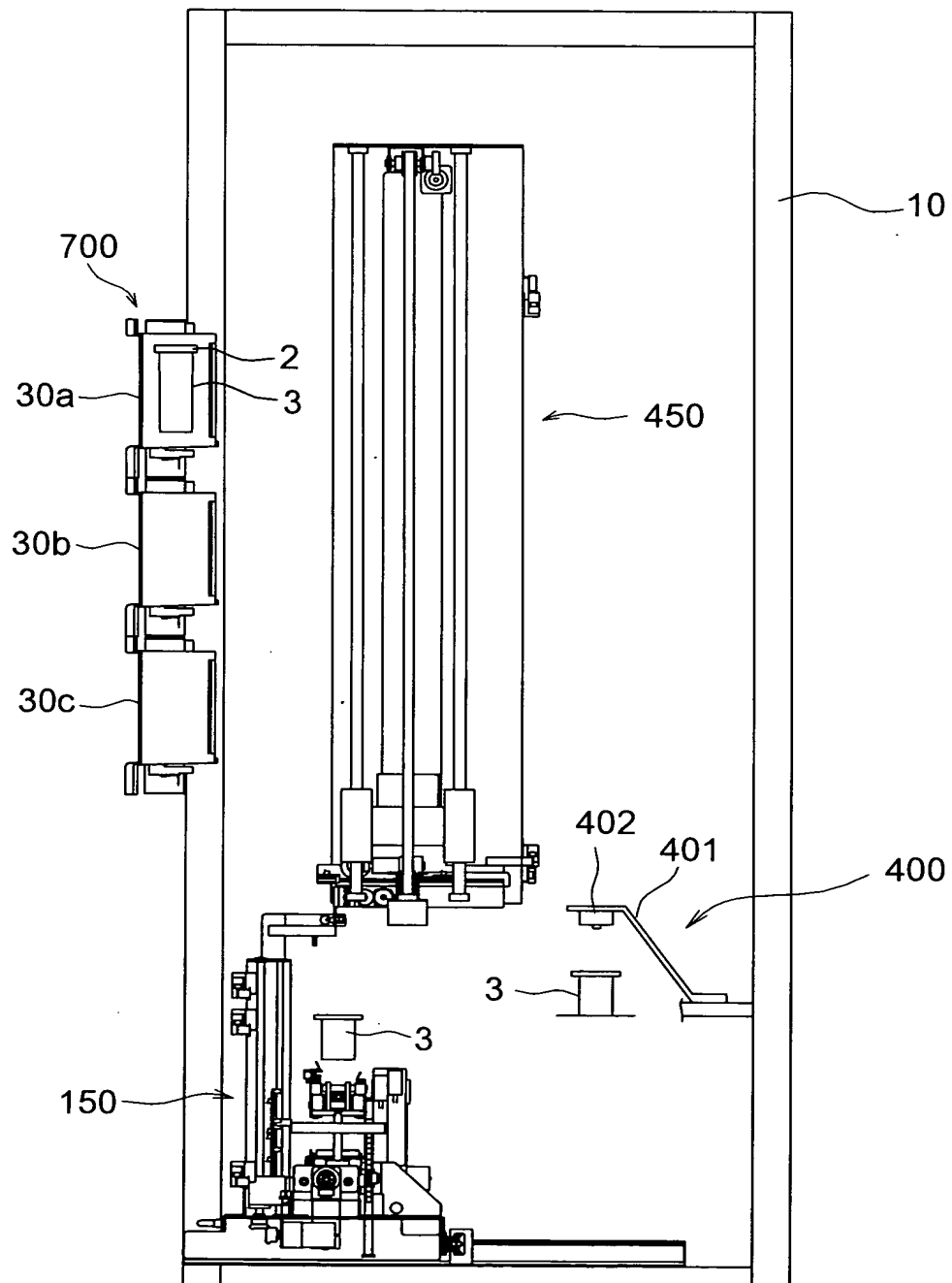
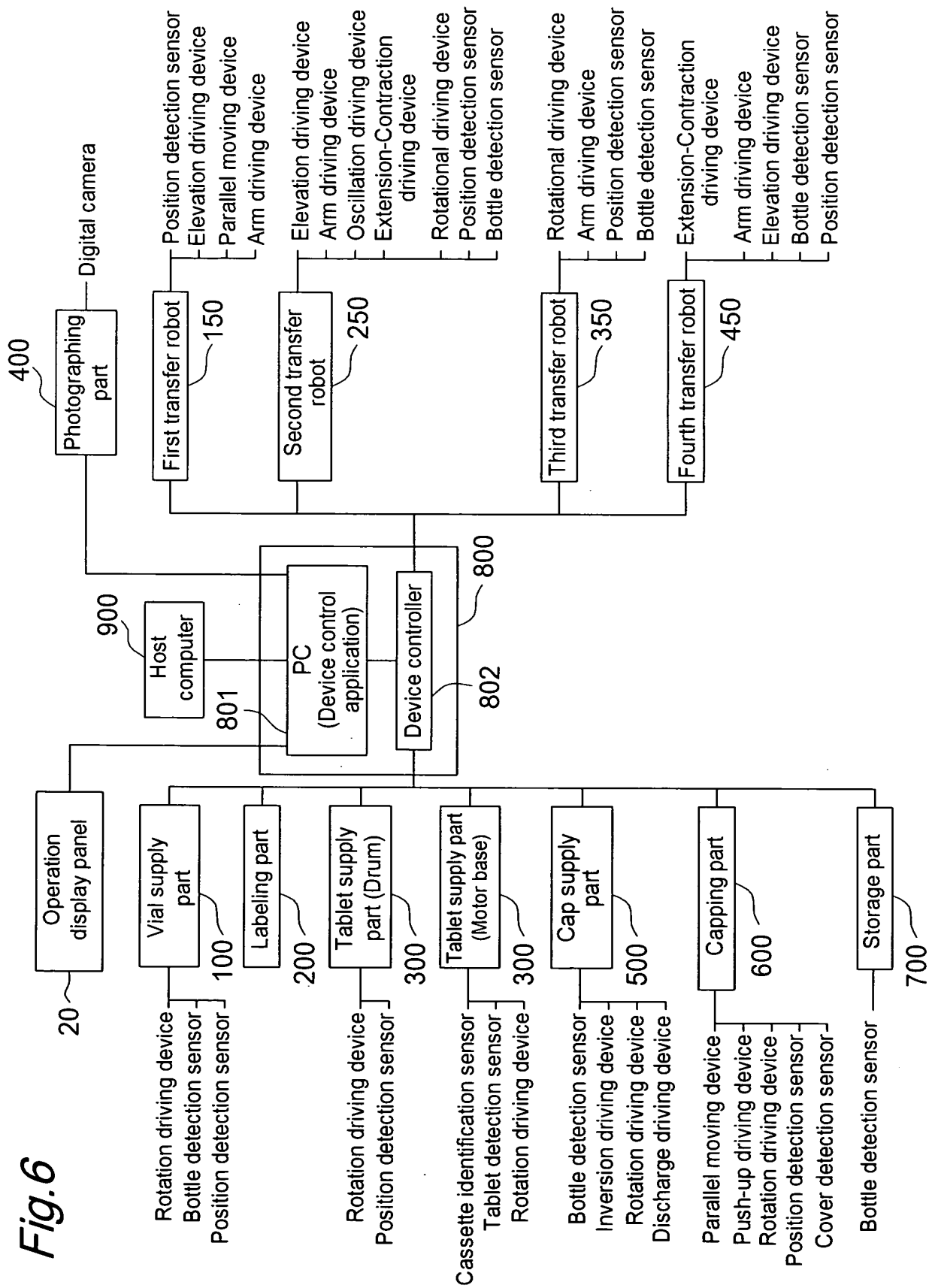
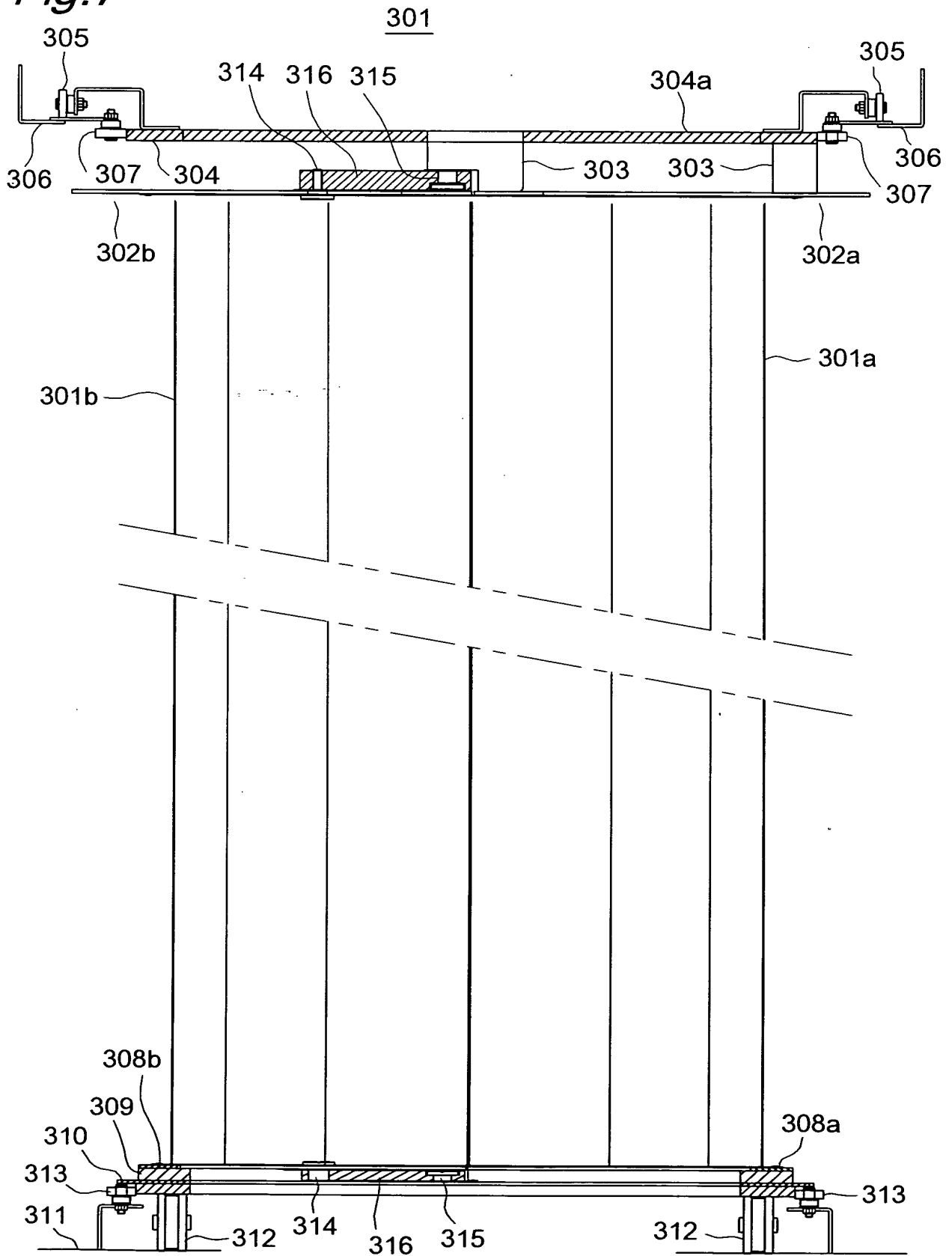
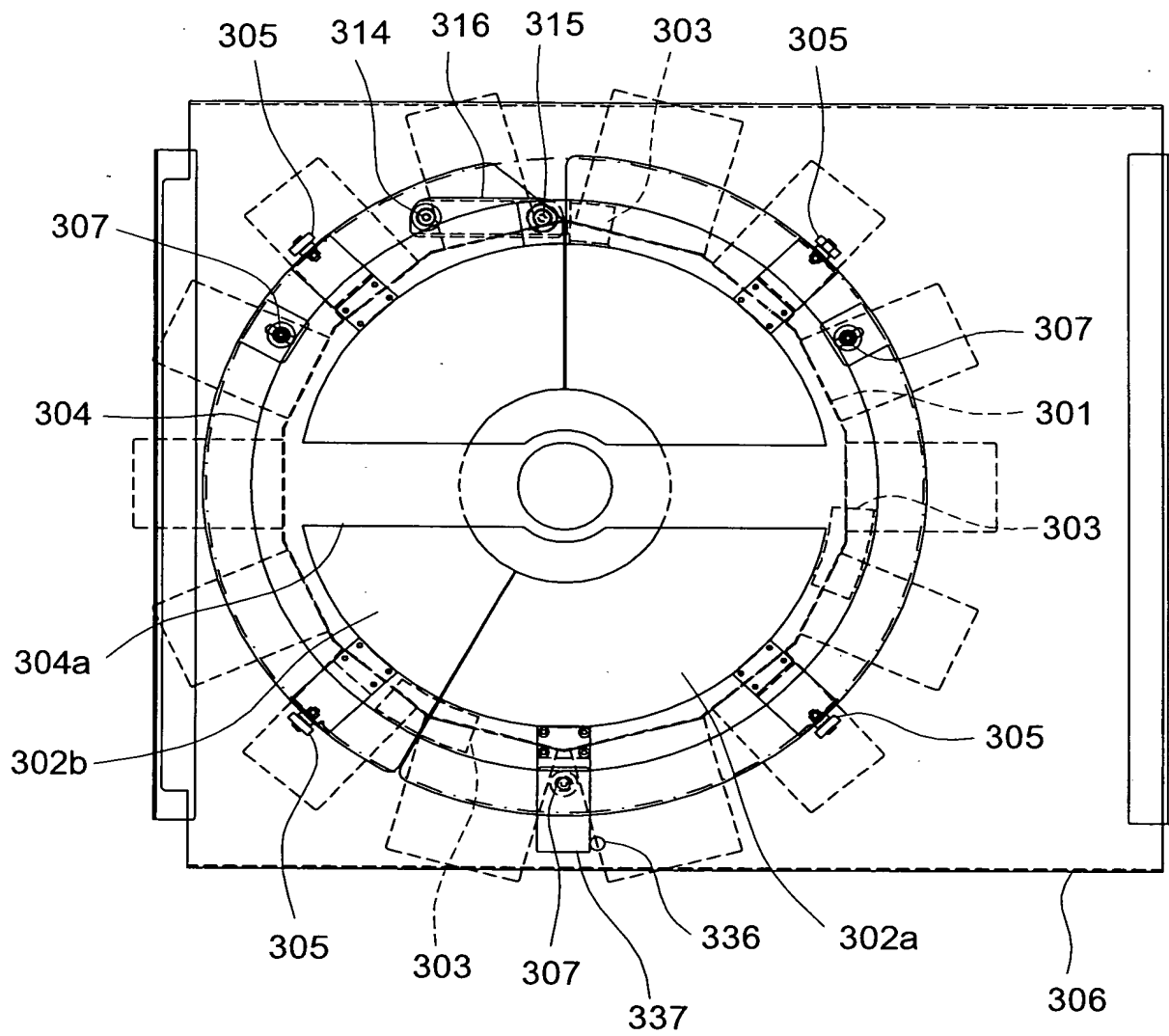


Fig. 6



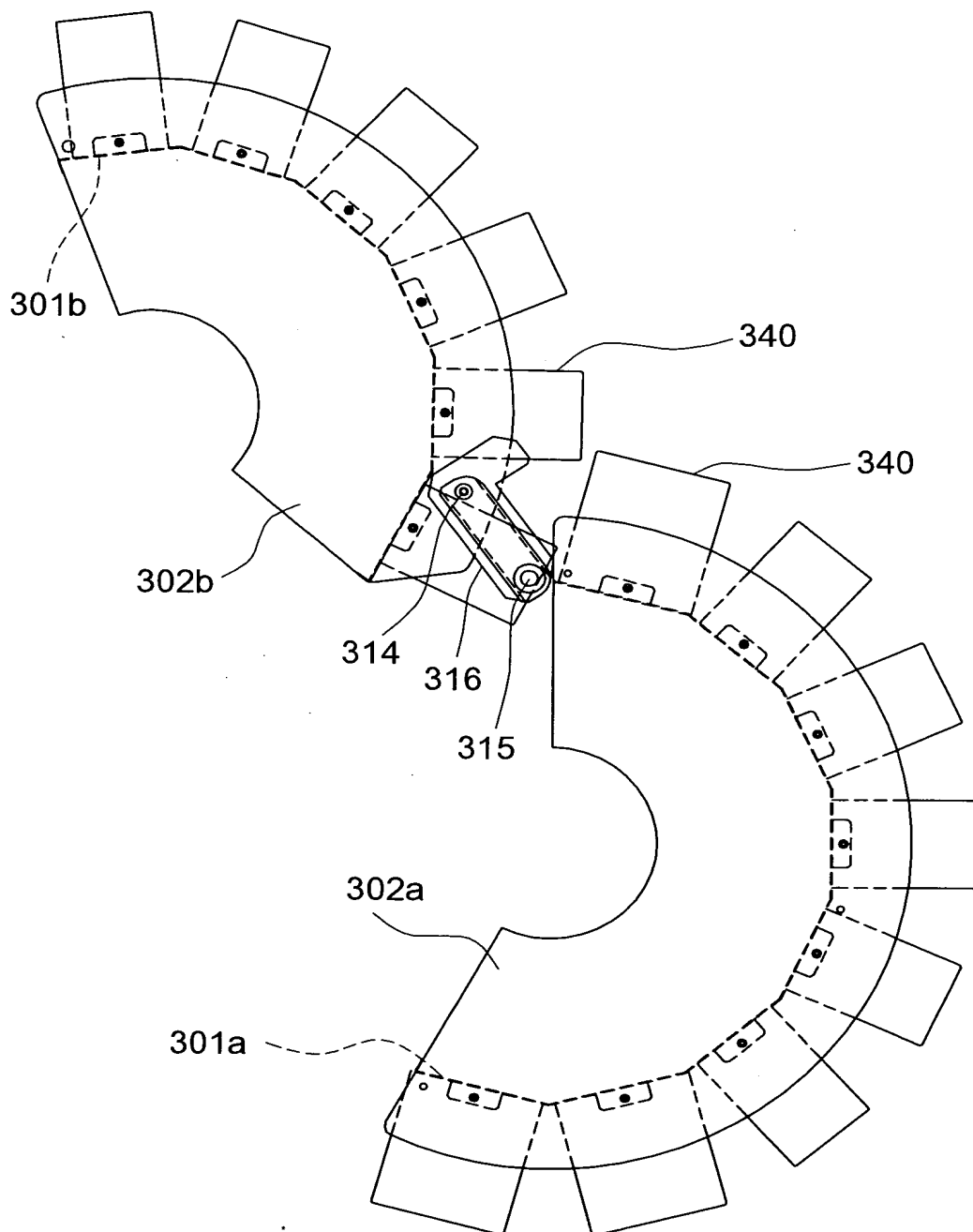
*Fig. 7*

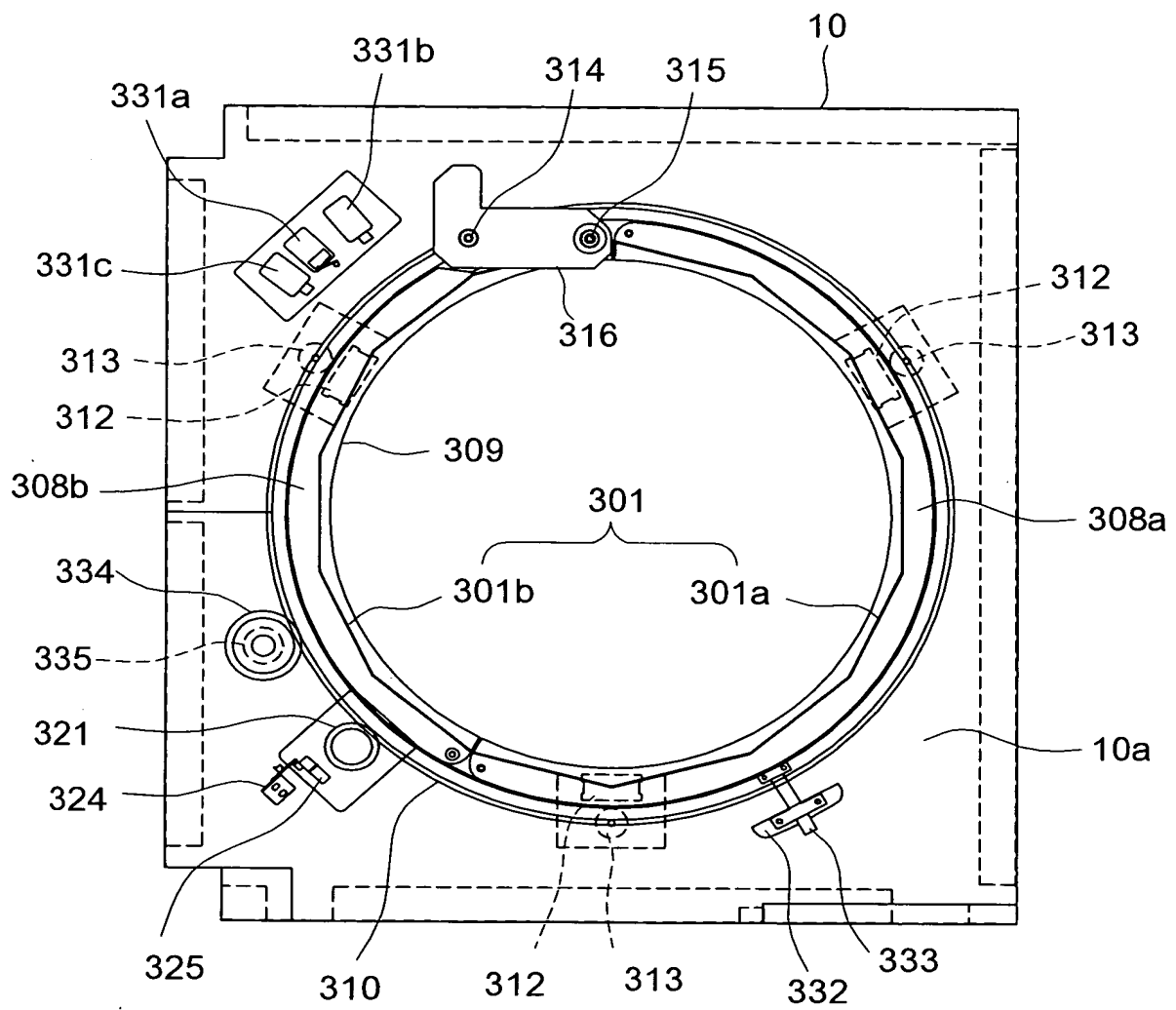




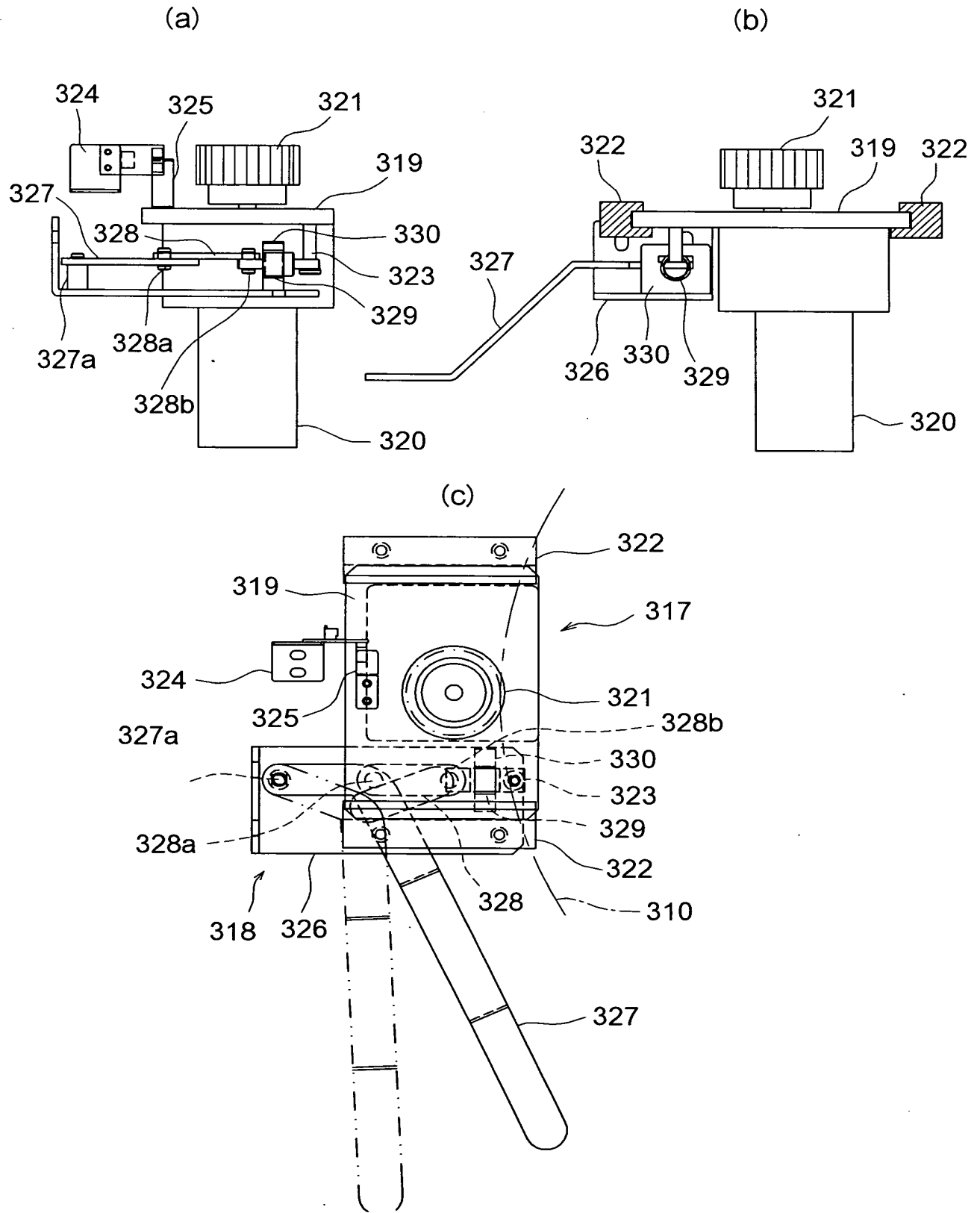


*Fig.9*

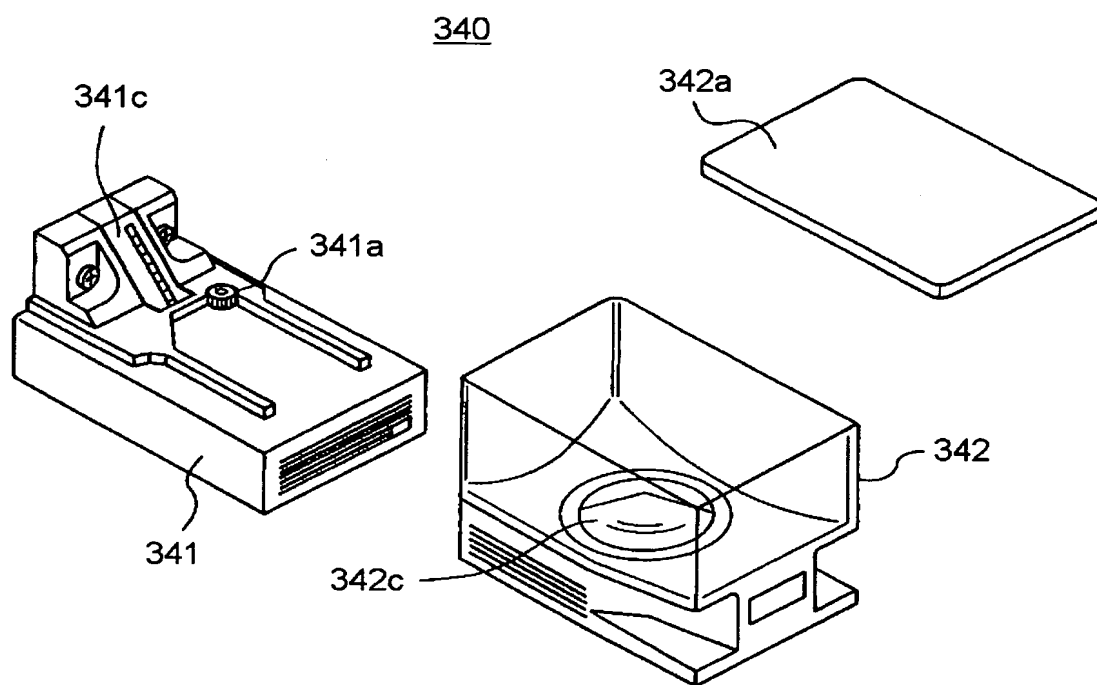




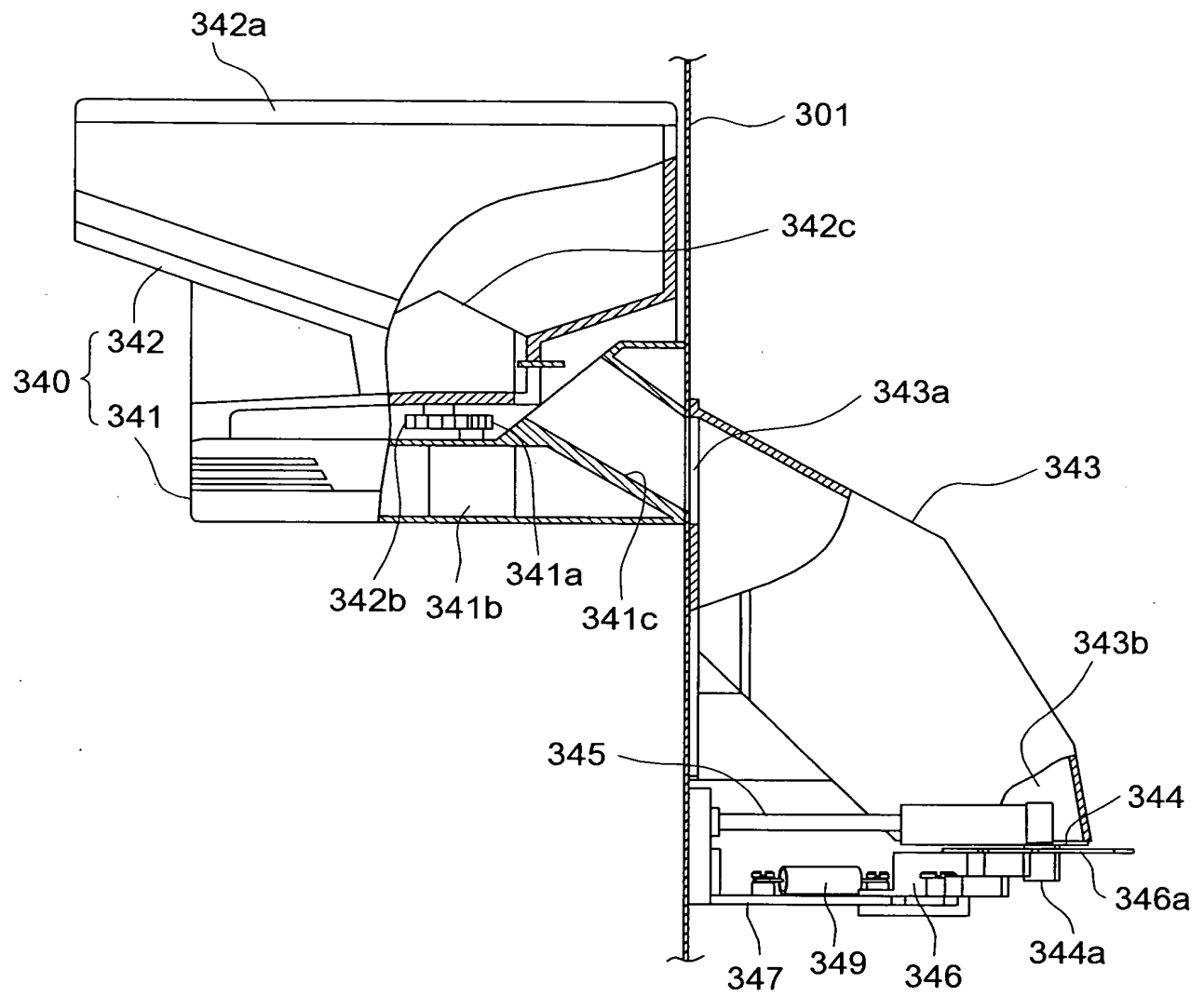
**Fig. 11**



*Fig. 12*

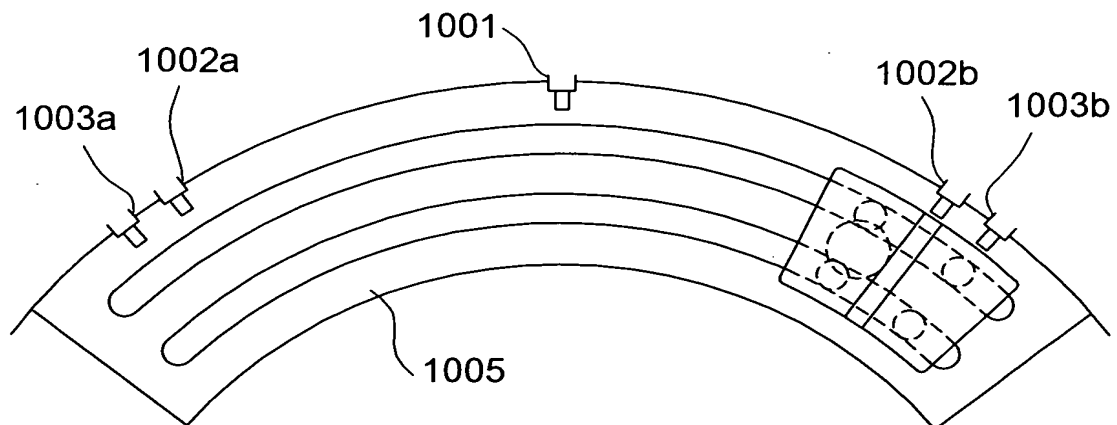
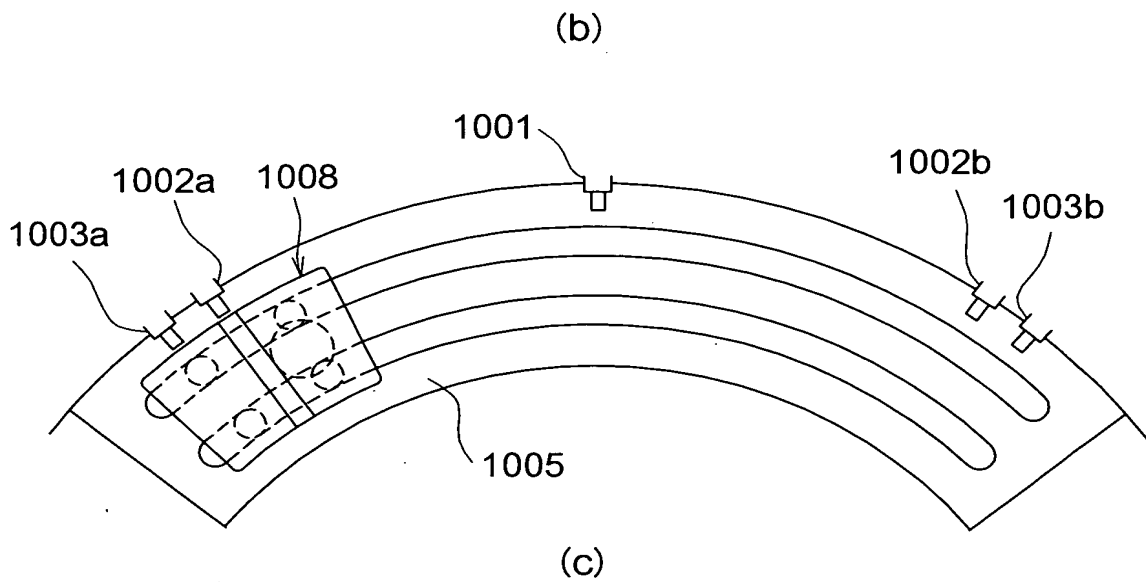
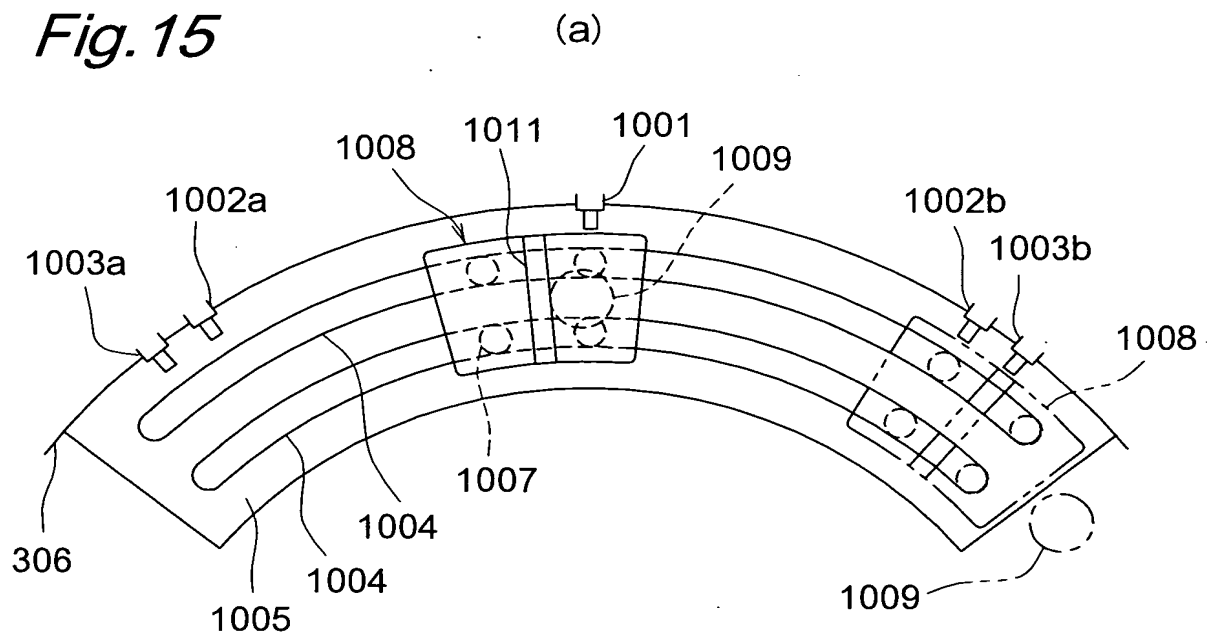


*Fig. 13*

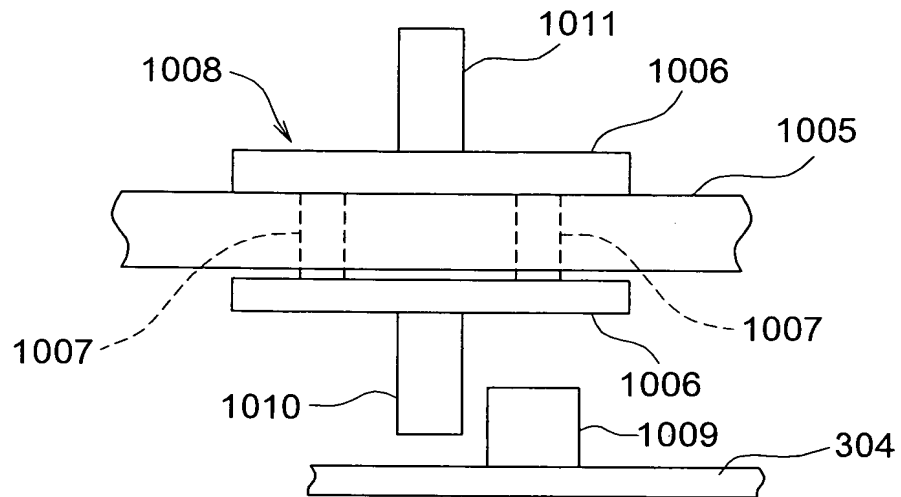




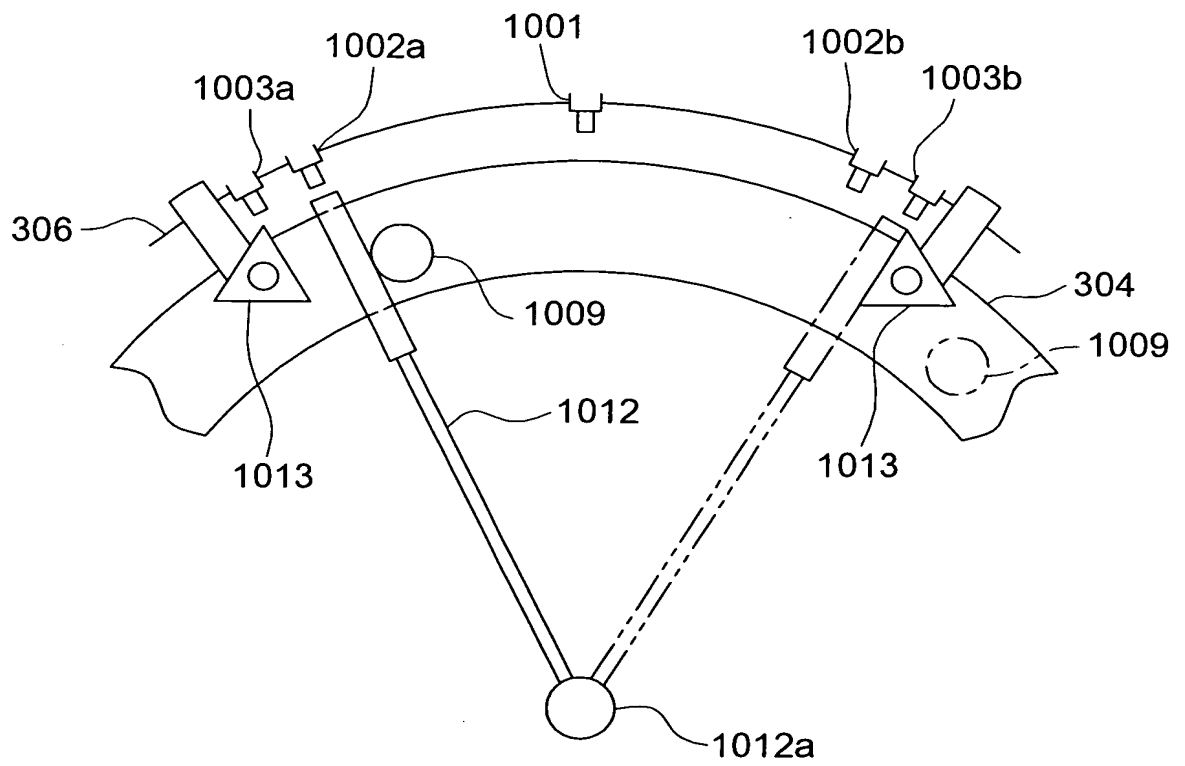
**Fig. 15**



*Fig. 16*

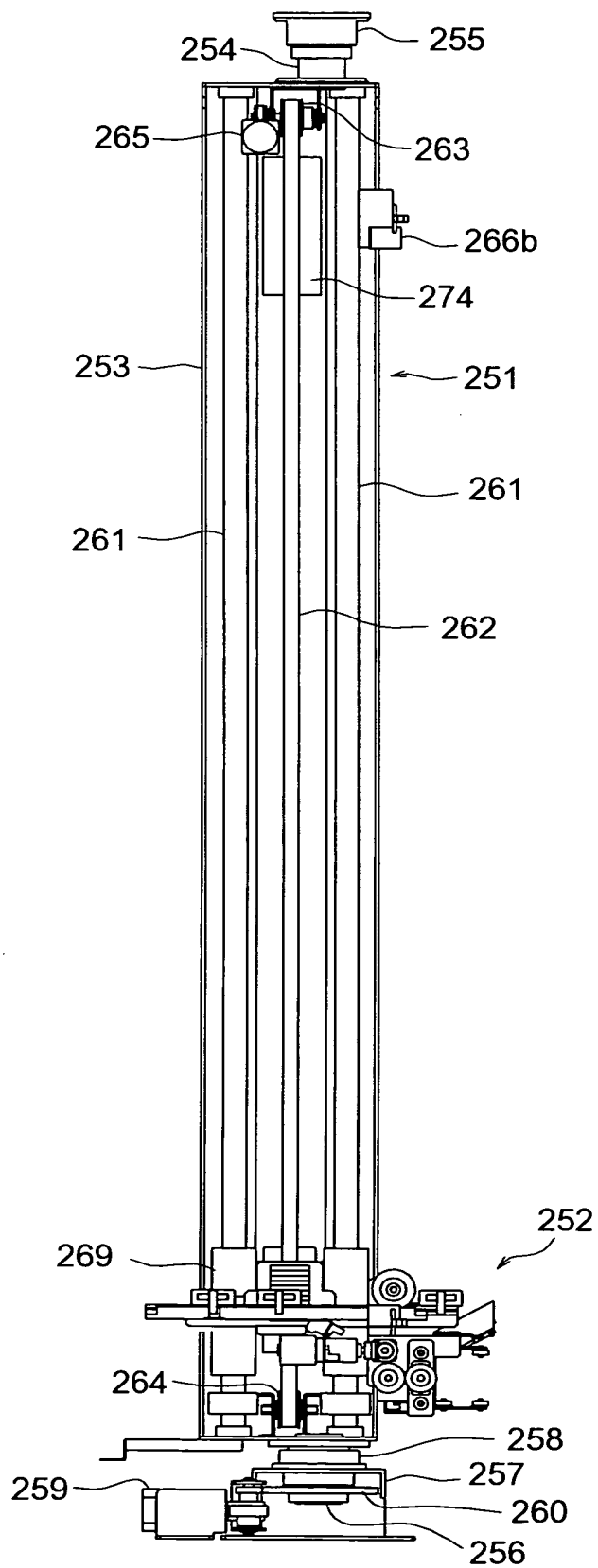


*Fig. 17*

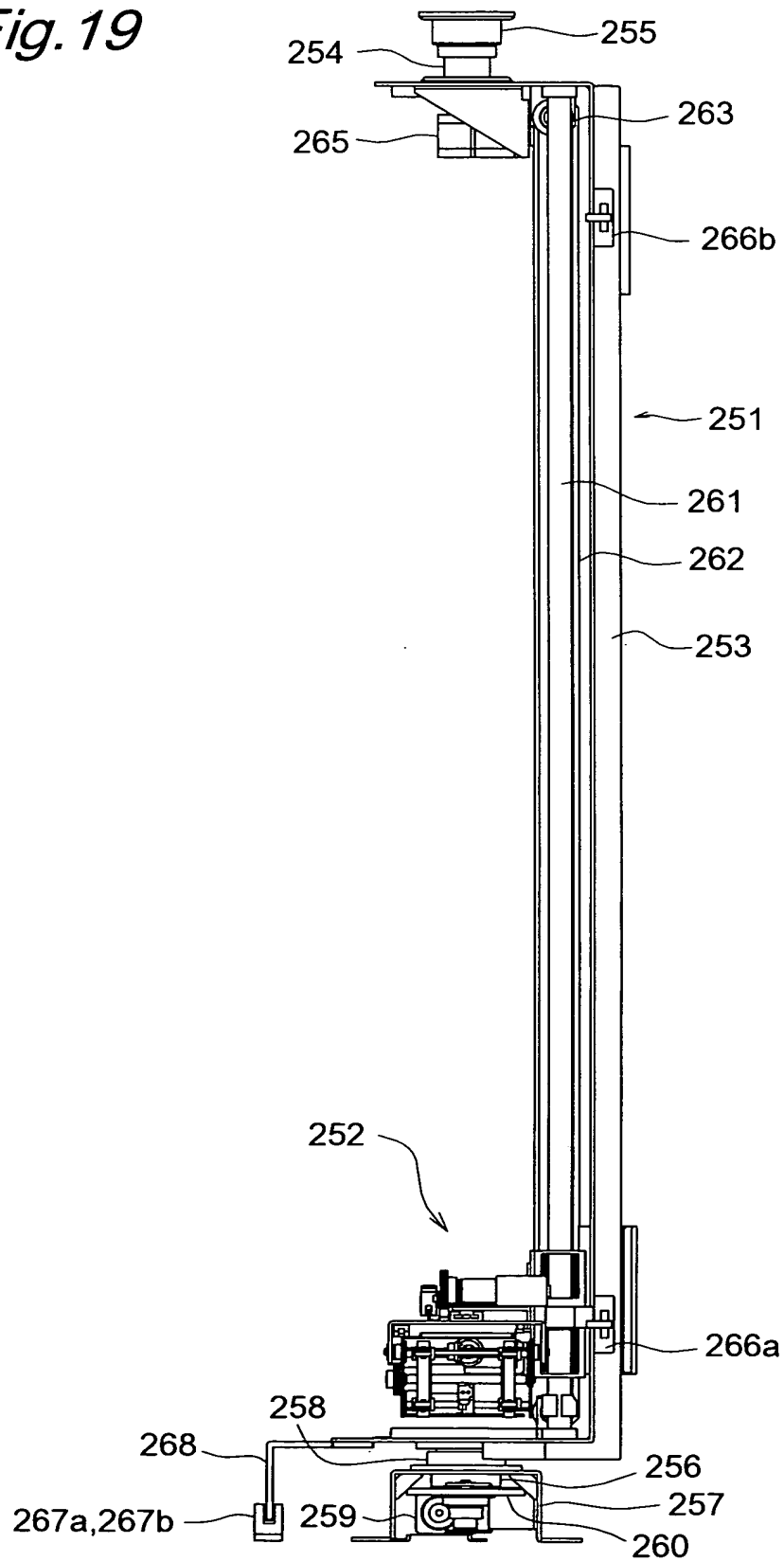




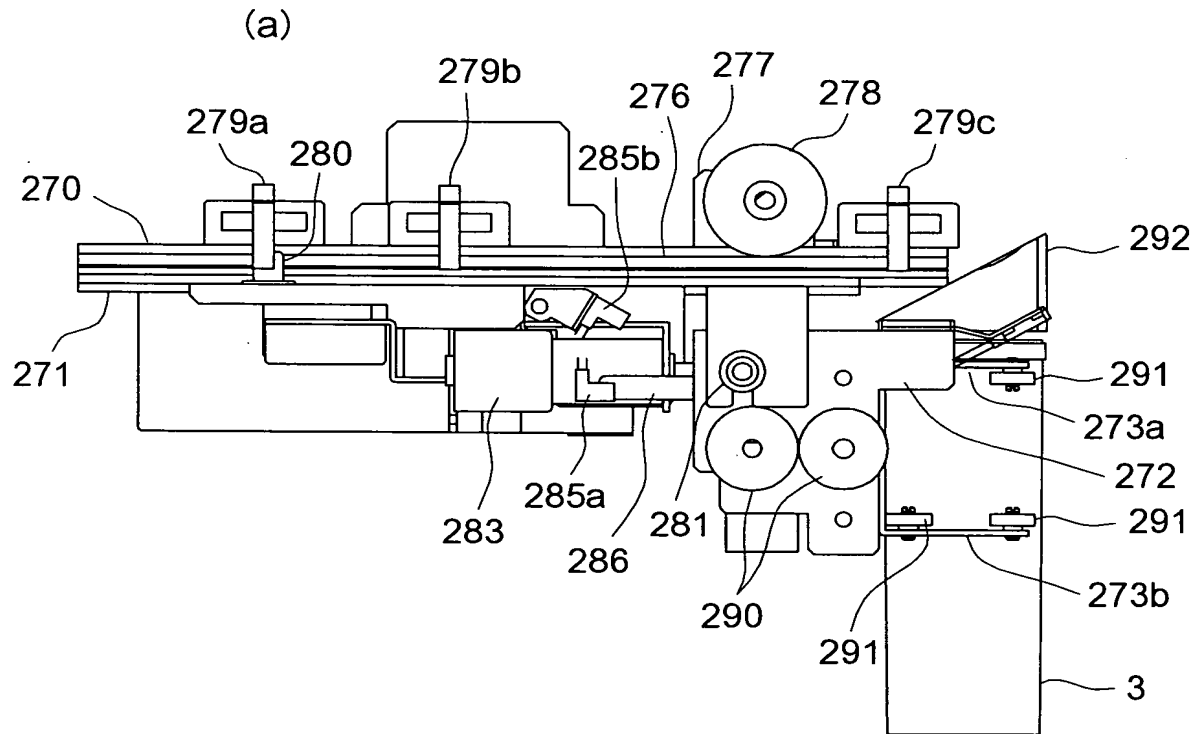
*Fig. 18*



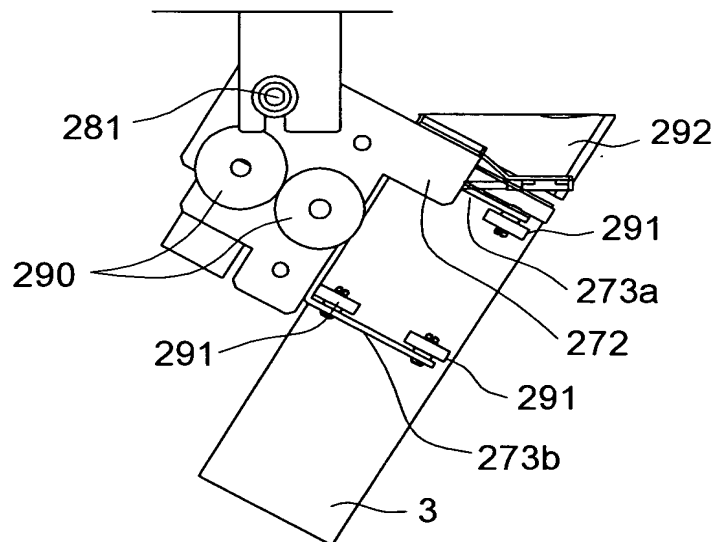
*Fig. 19*



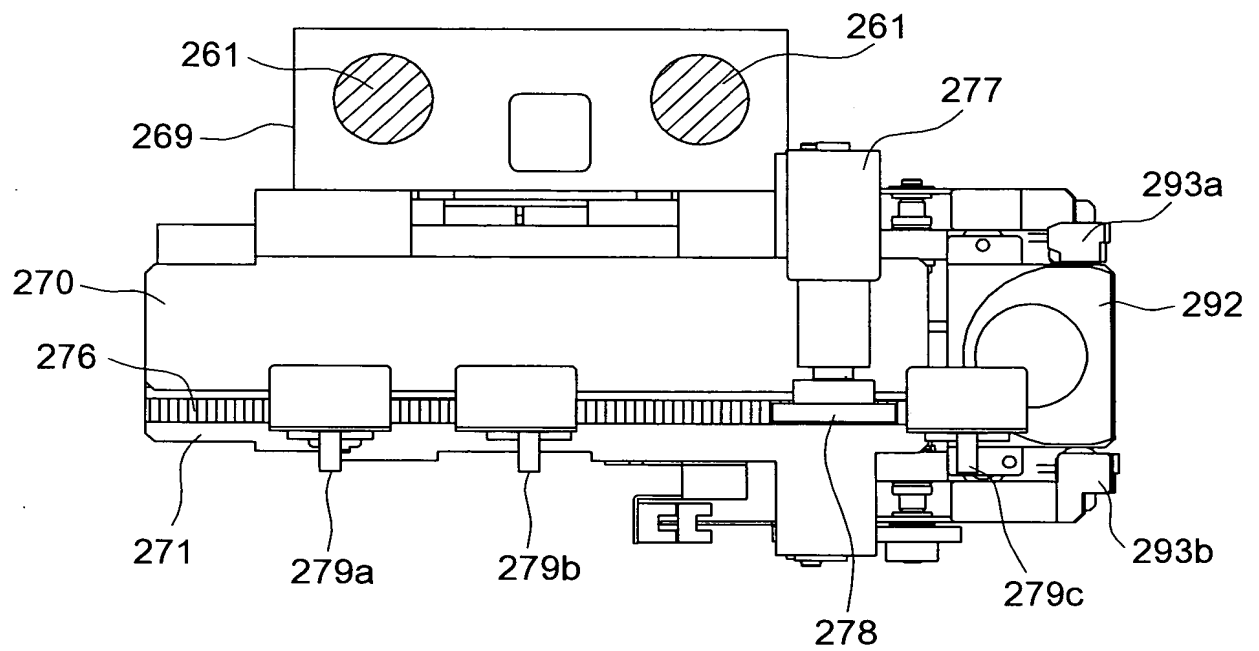
*Fig.20*



(b)



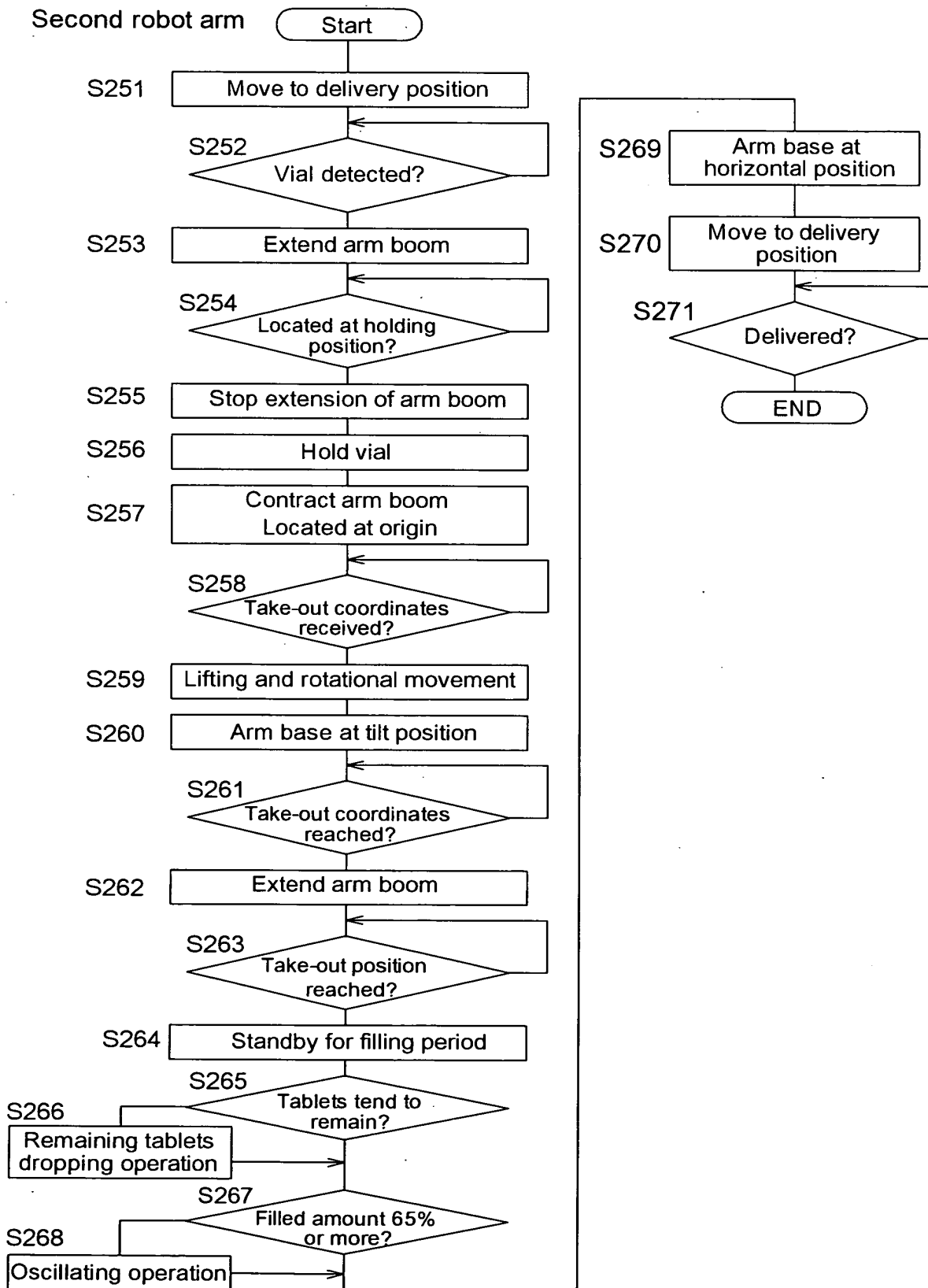
*Fig.21*



This diagram illustrates a mechanical assembly, possibly a printer or copier, showing various components and their interconnections. The assembly includes a motor (277) driving a series of gears and shafts (275a, 275b, 278, 281, 282, 284) to operate a carriage (289) and a paper support structure (270, 271, 272, 273a, 273c, 273d). Other components include a sensor or actuator (279a-c), a roller (280), and various structural frames (285a,b, 290, 291).

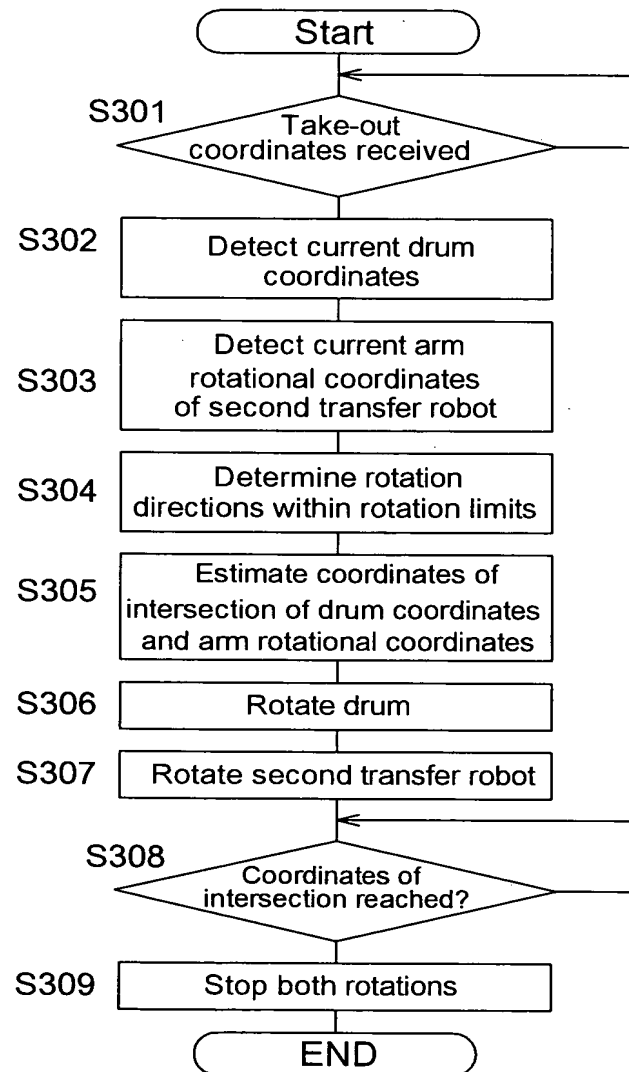


**Fig.24**



*Fig.25*

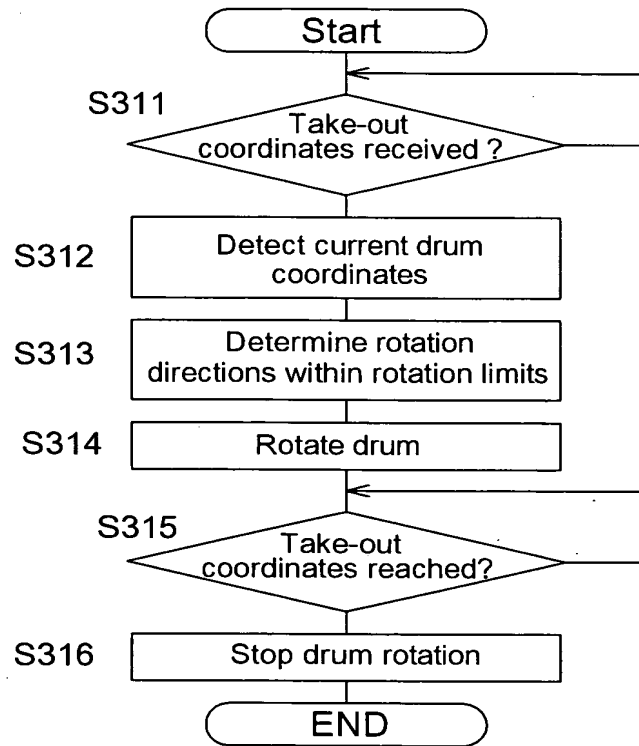
Mutual control





*Fig.26*

Drum control



*Fig.27*

Robot arm control

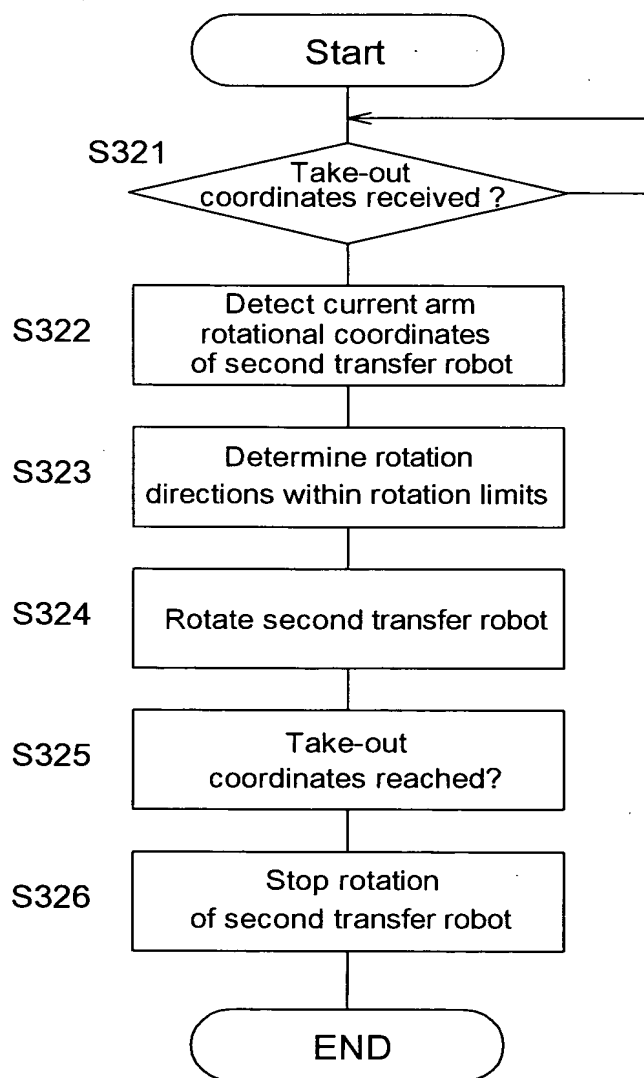
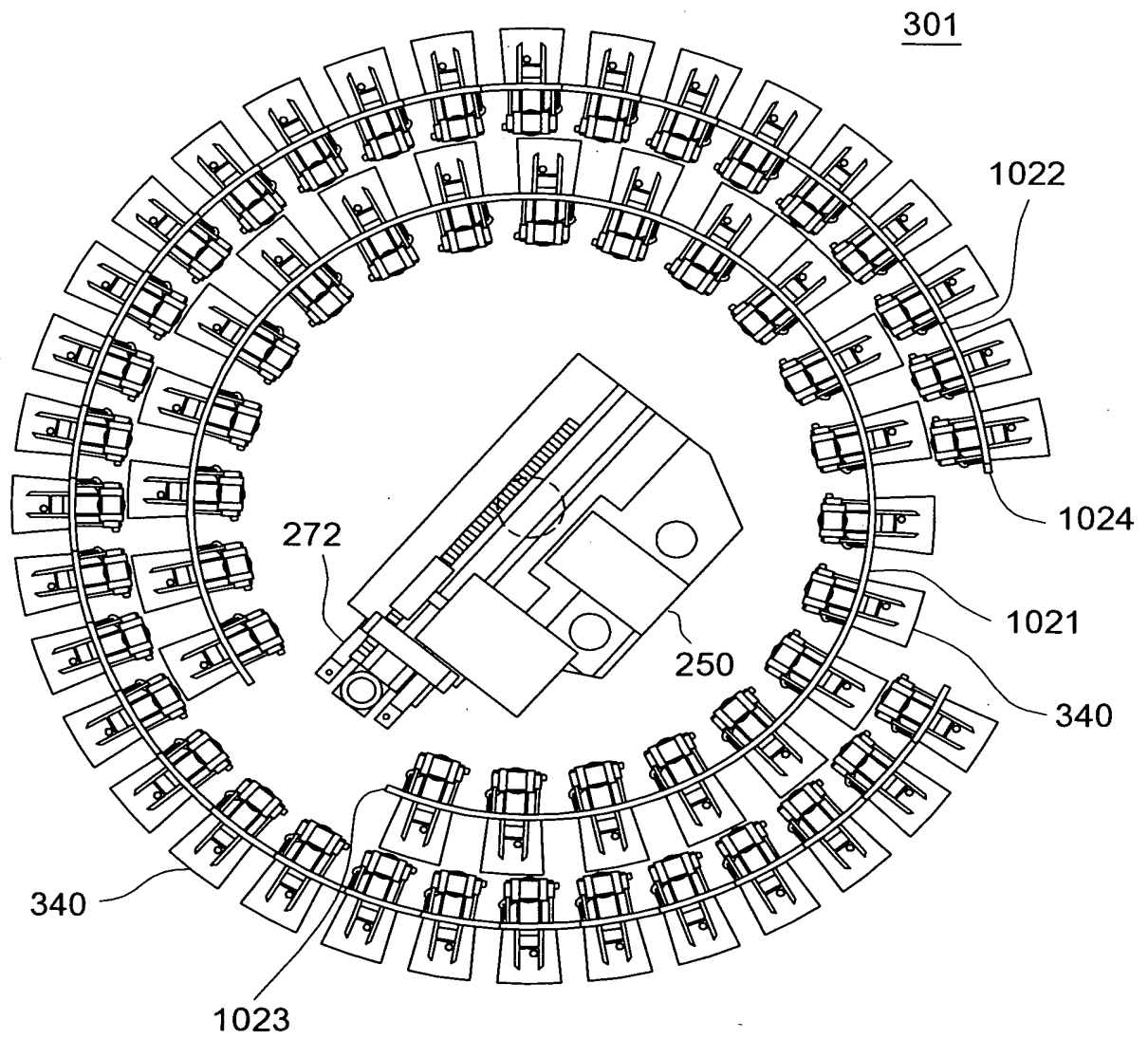
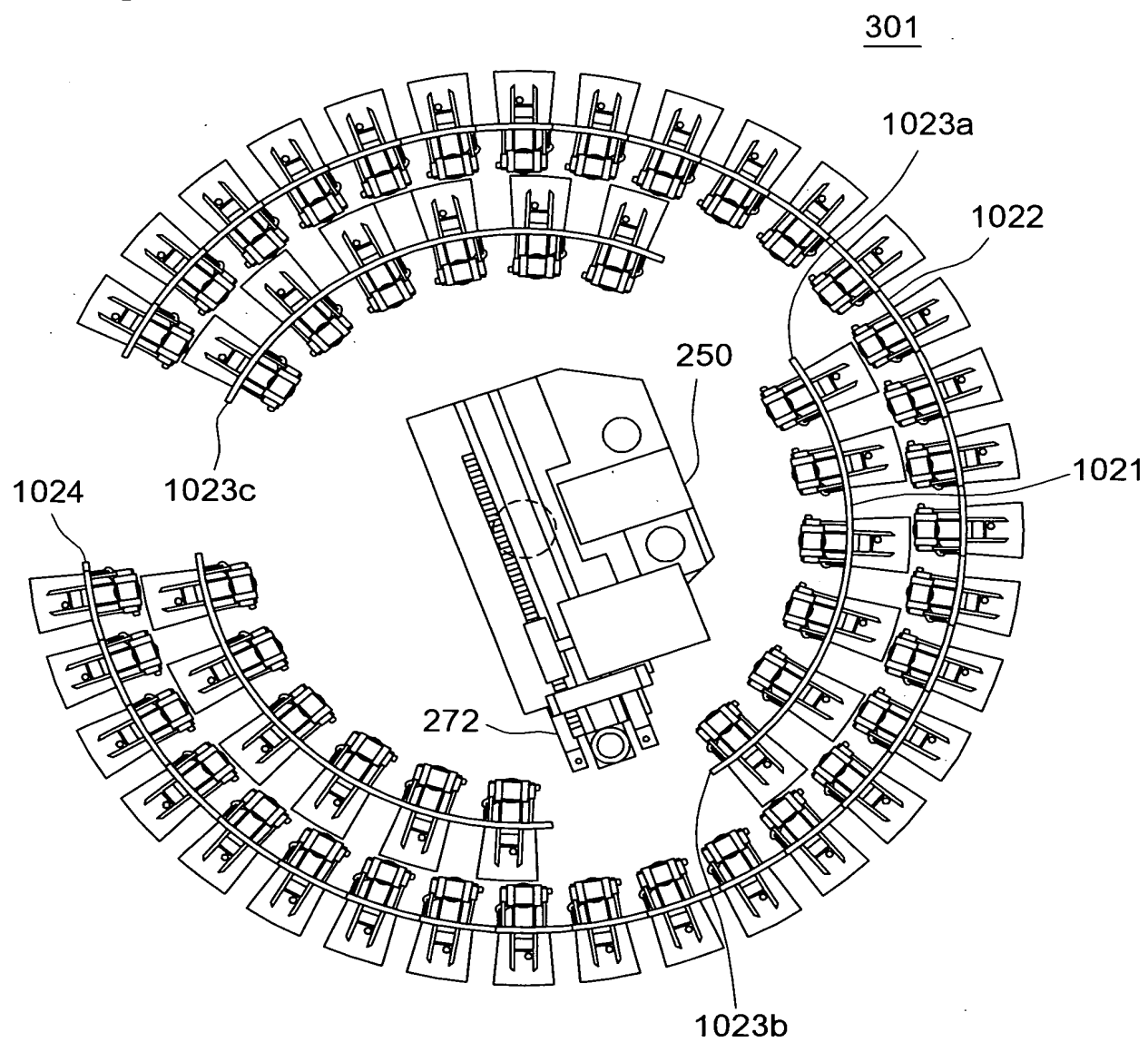


Fig.28

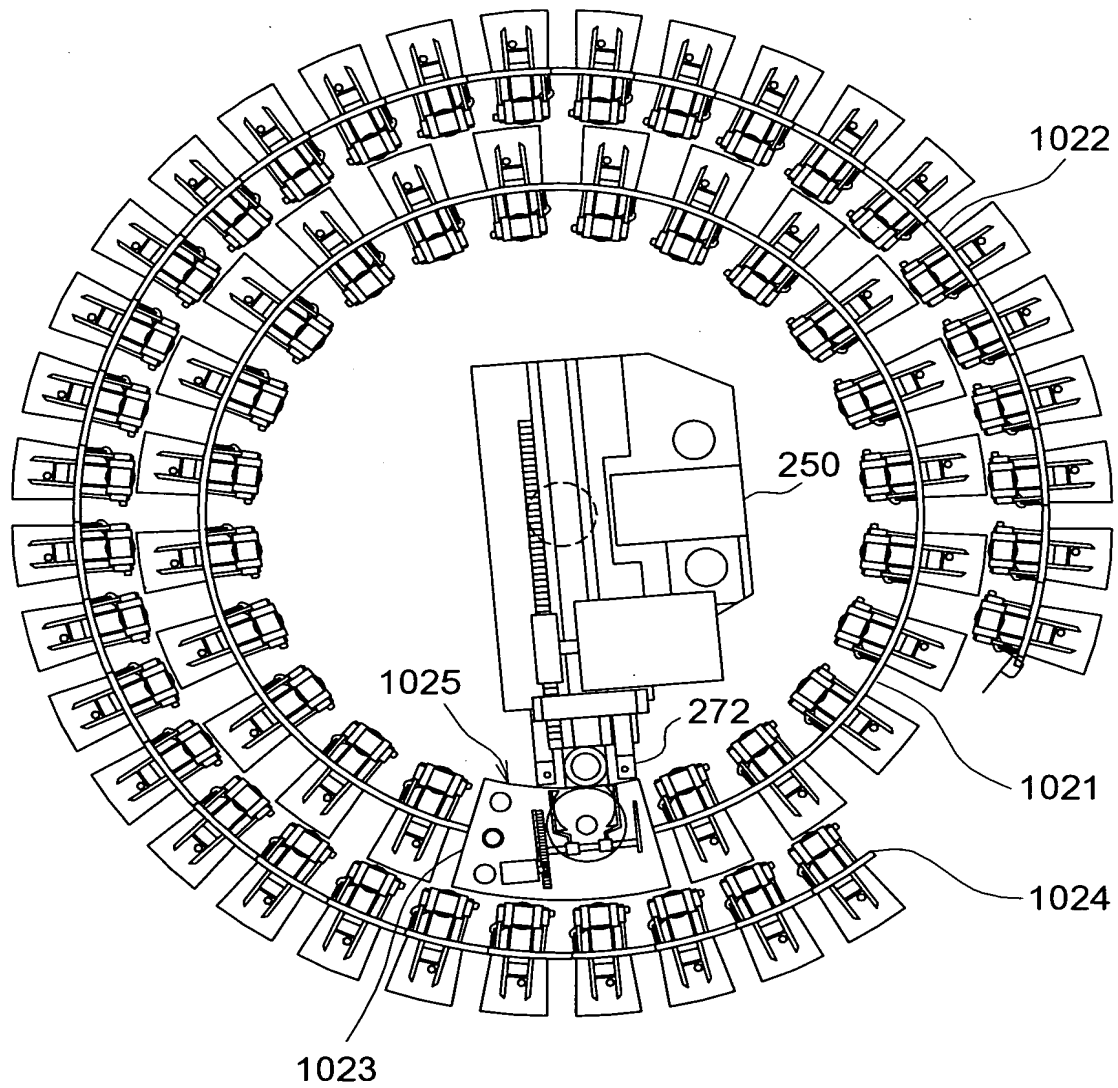


*Fig.29*

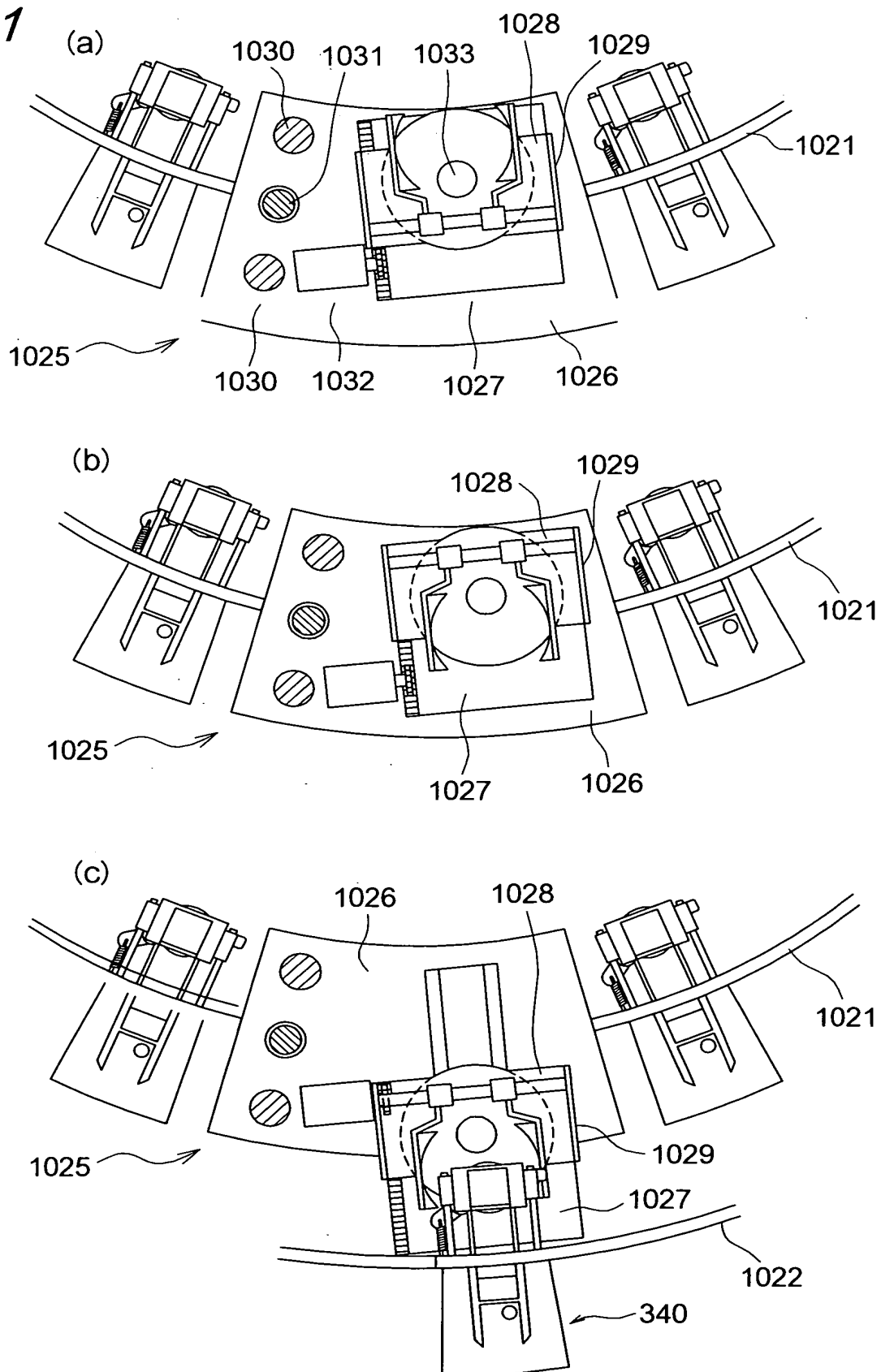


*Fig.30*

301

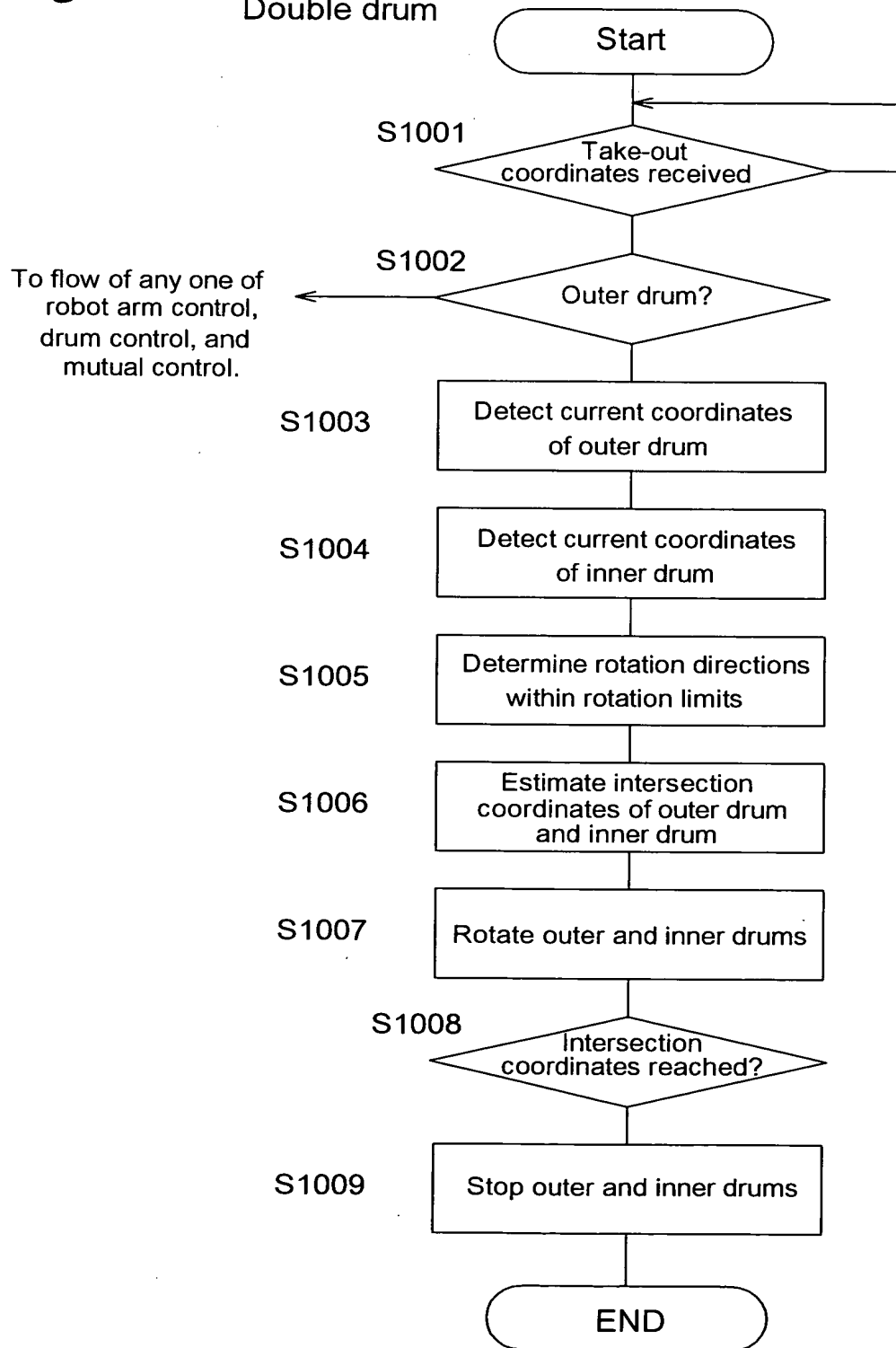


**Fig.31**



*Fig.32*

Double drum



**Fig.33**

Auxiliary transfer robot

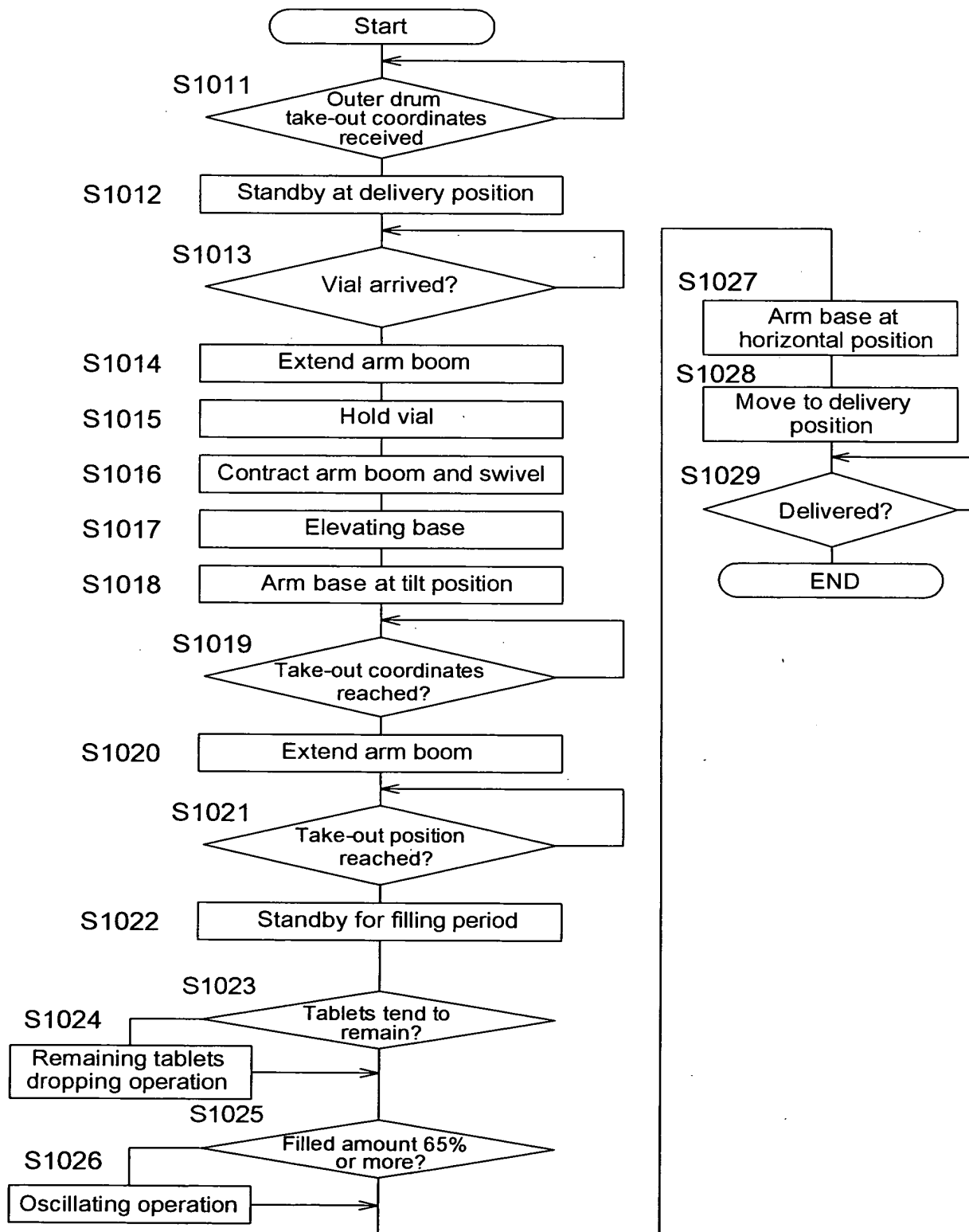
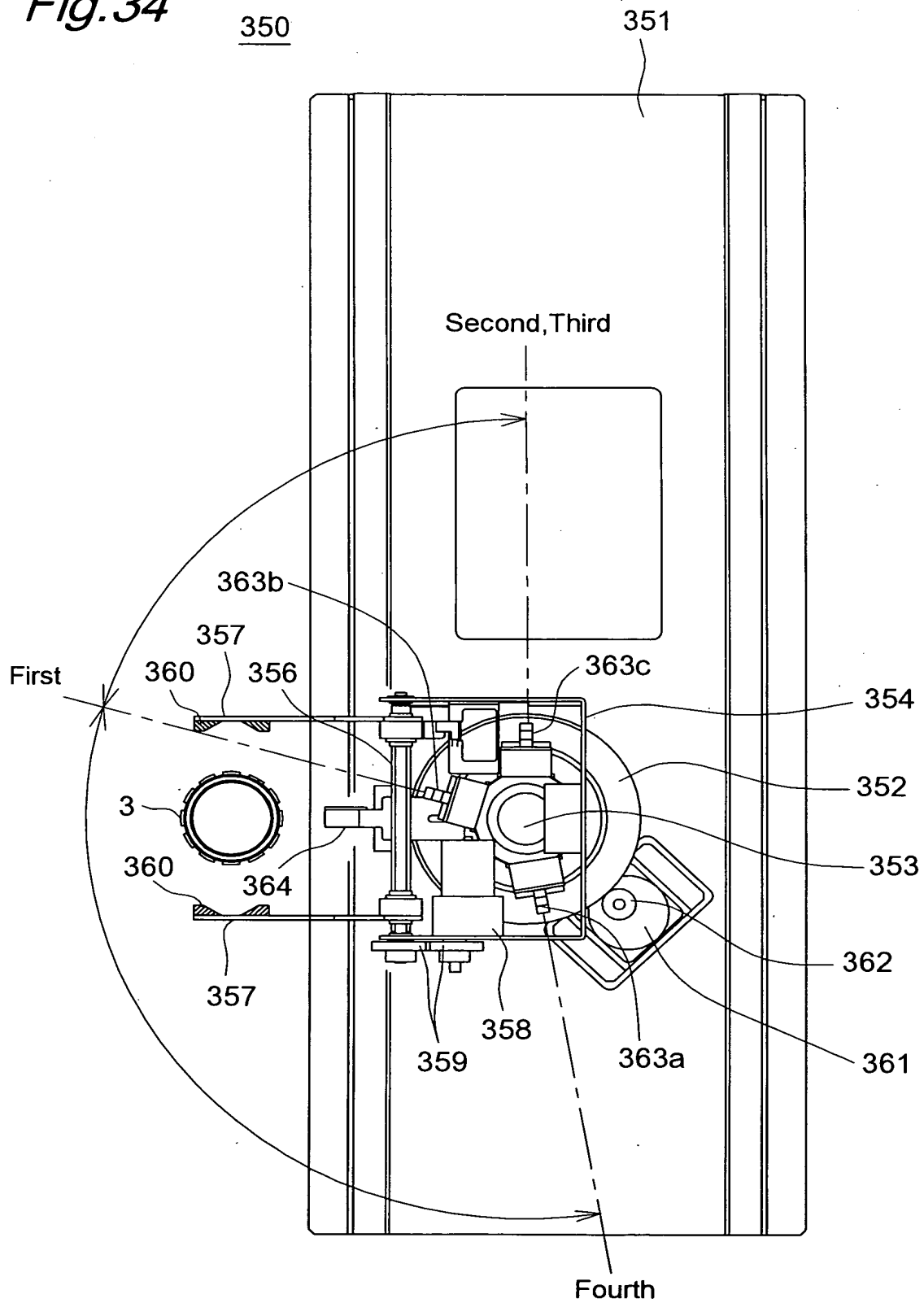
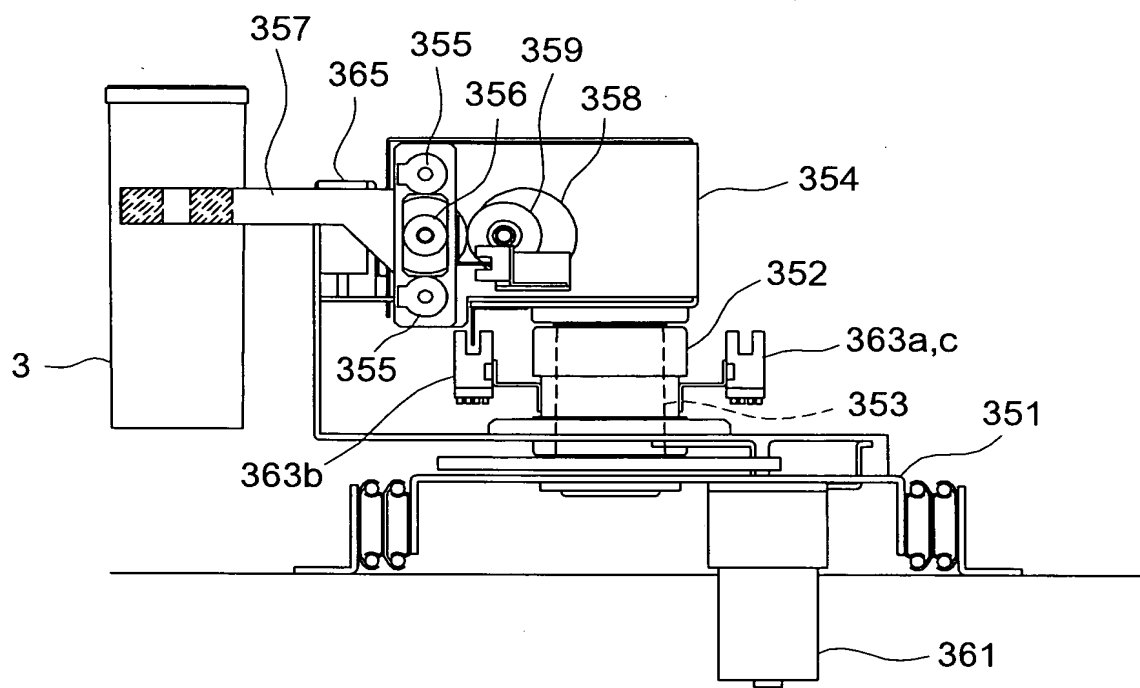




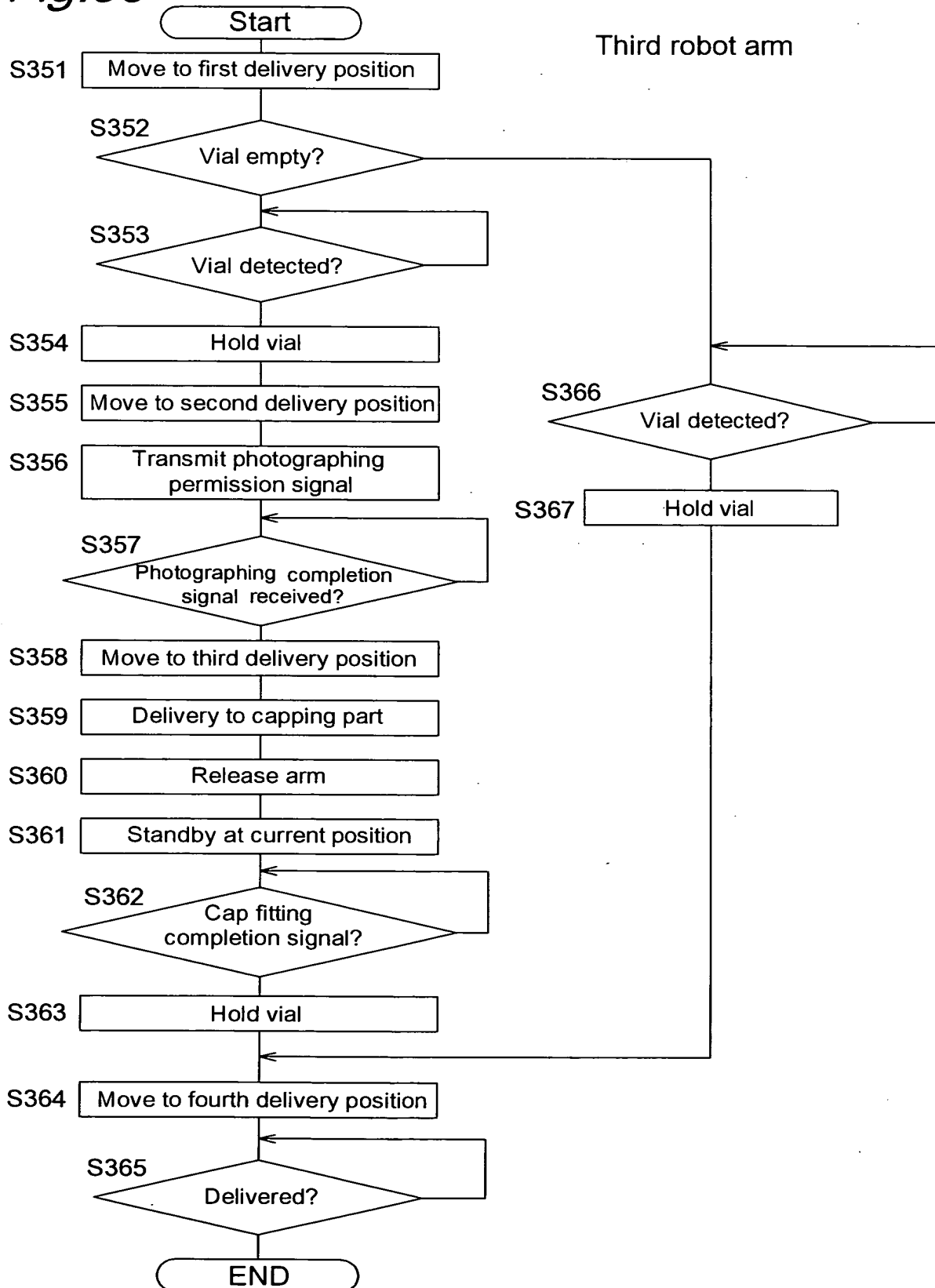
Fig. 34



*Fig.35*

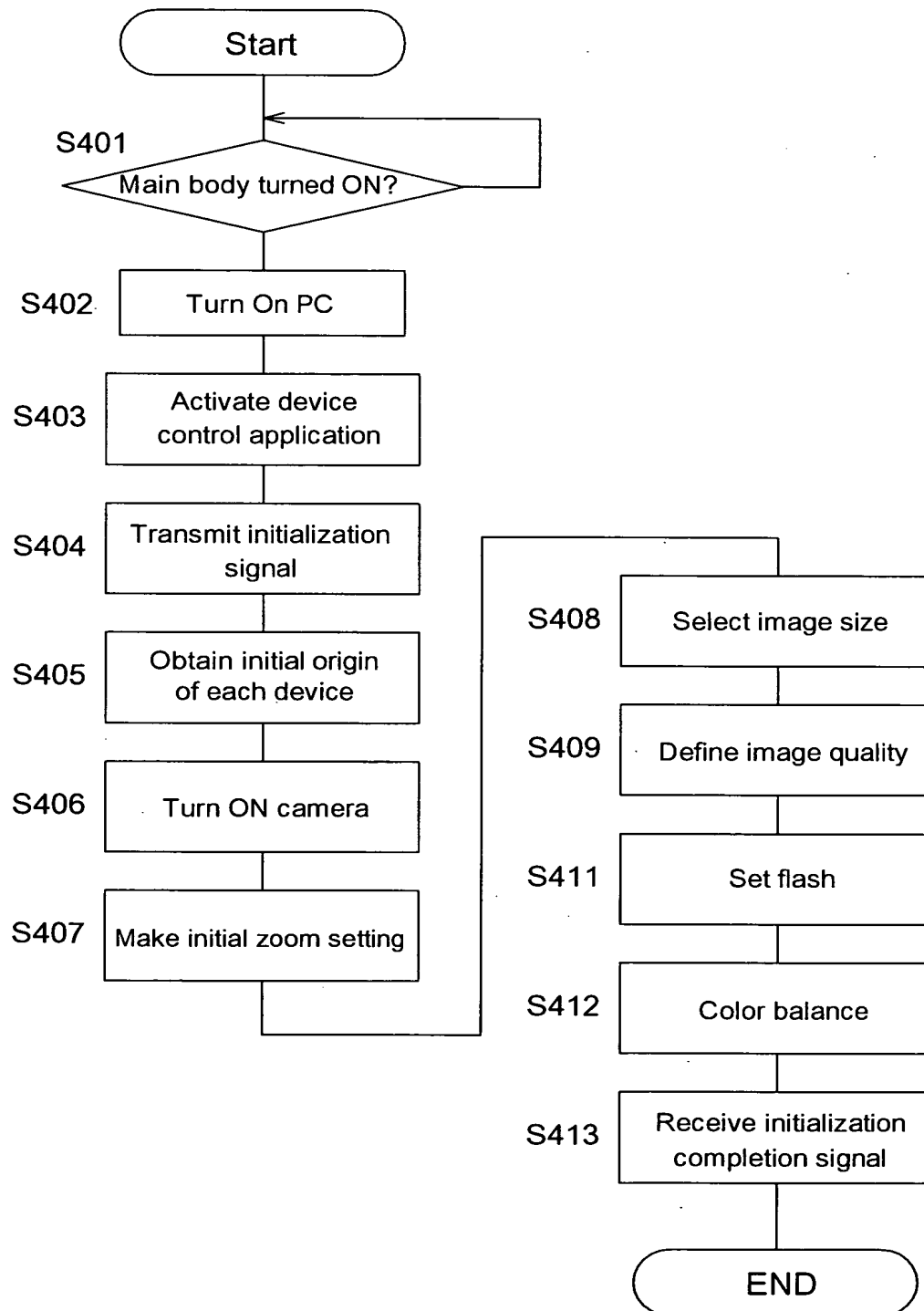


*Fig.36*



**Fig.37**

Photographing initialization



**Fig.38**

Photographing control

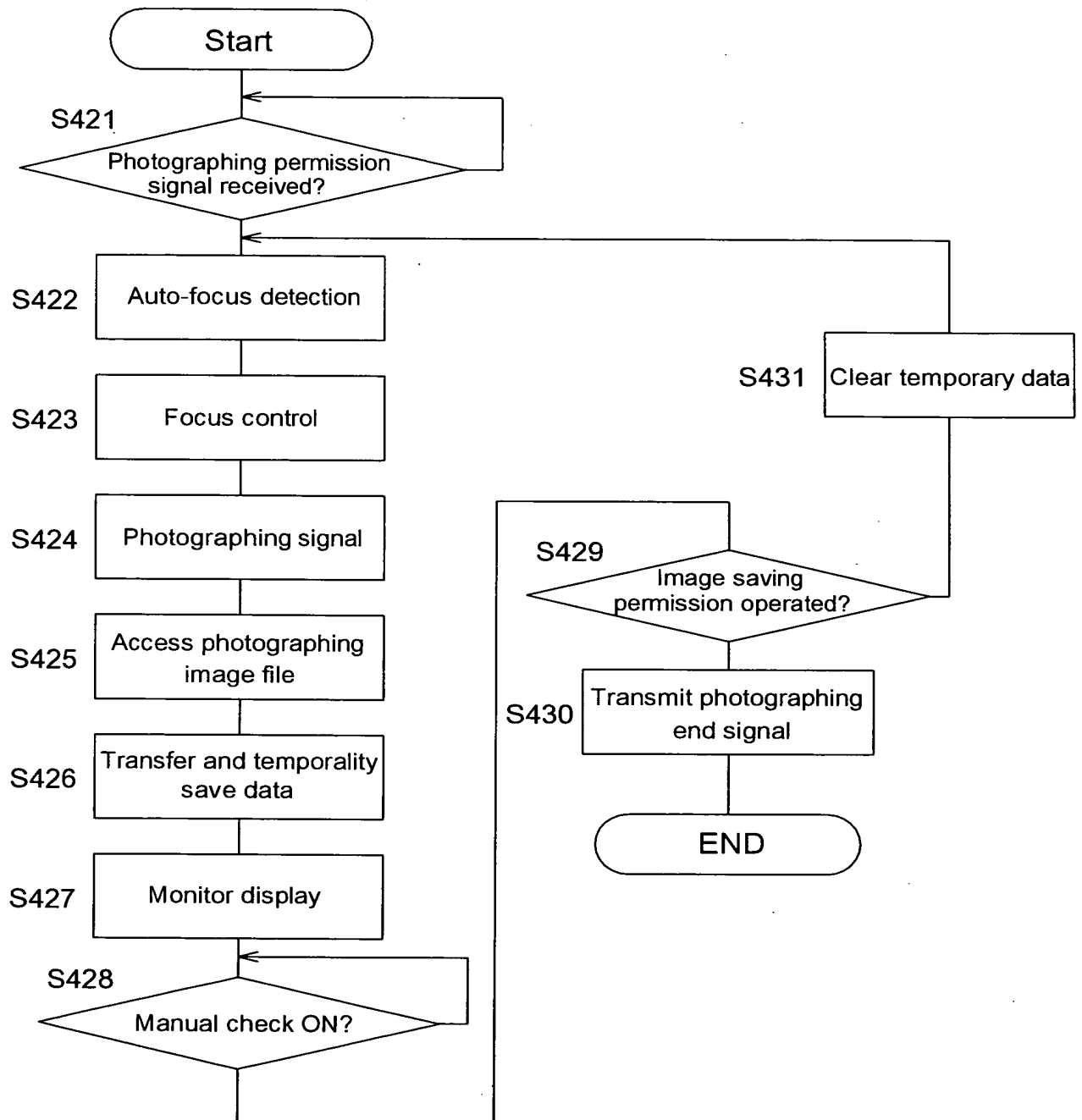


Fig. 39

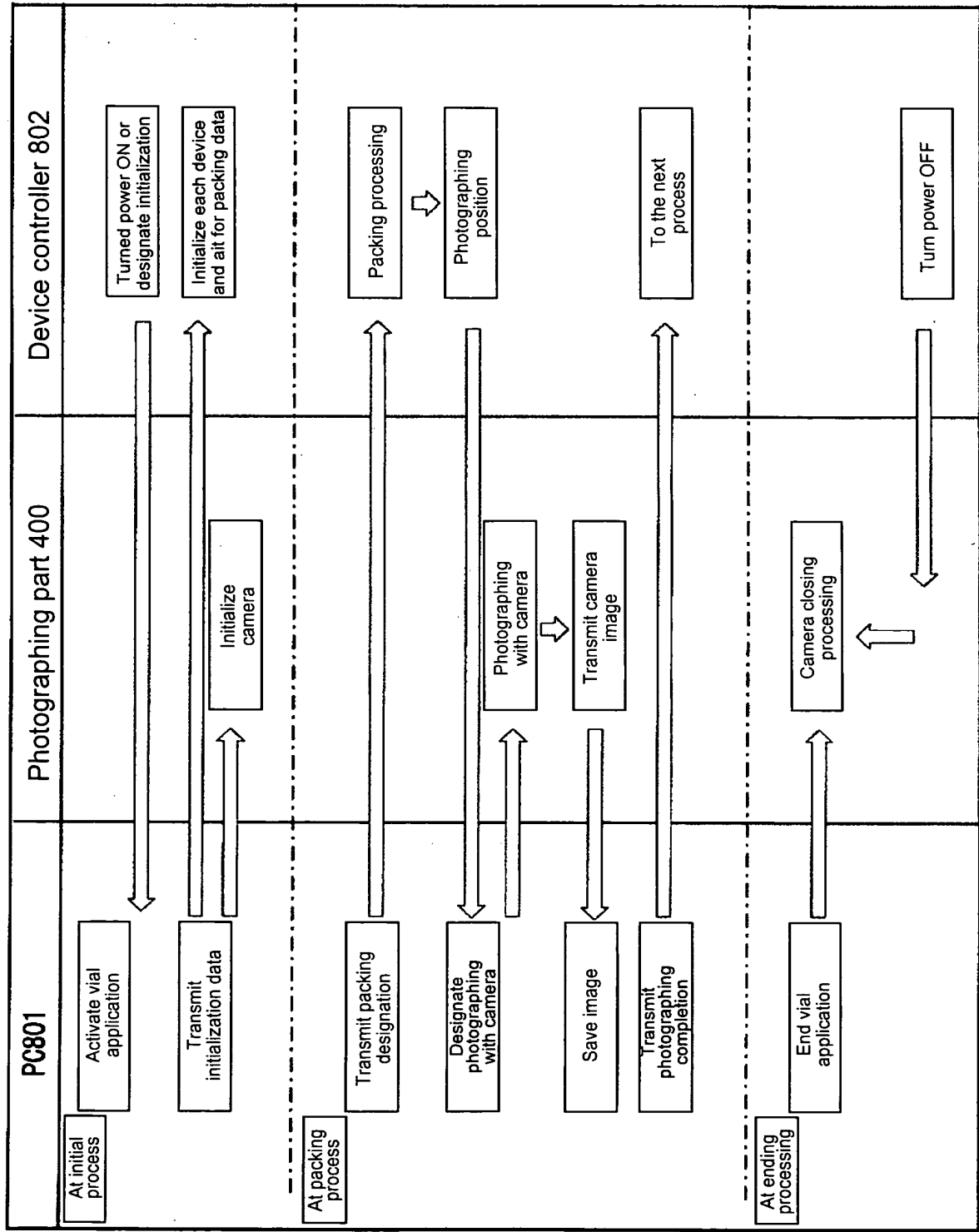


Fig. 40

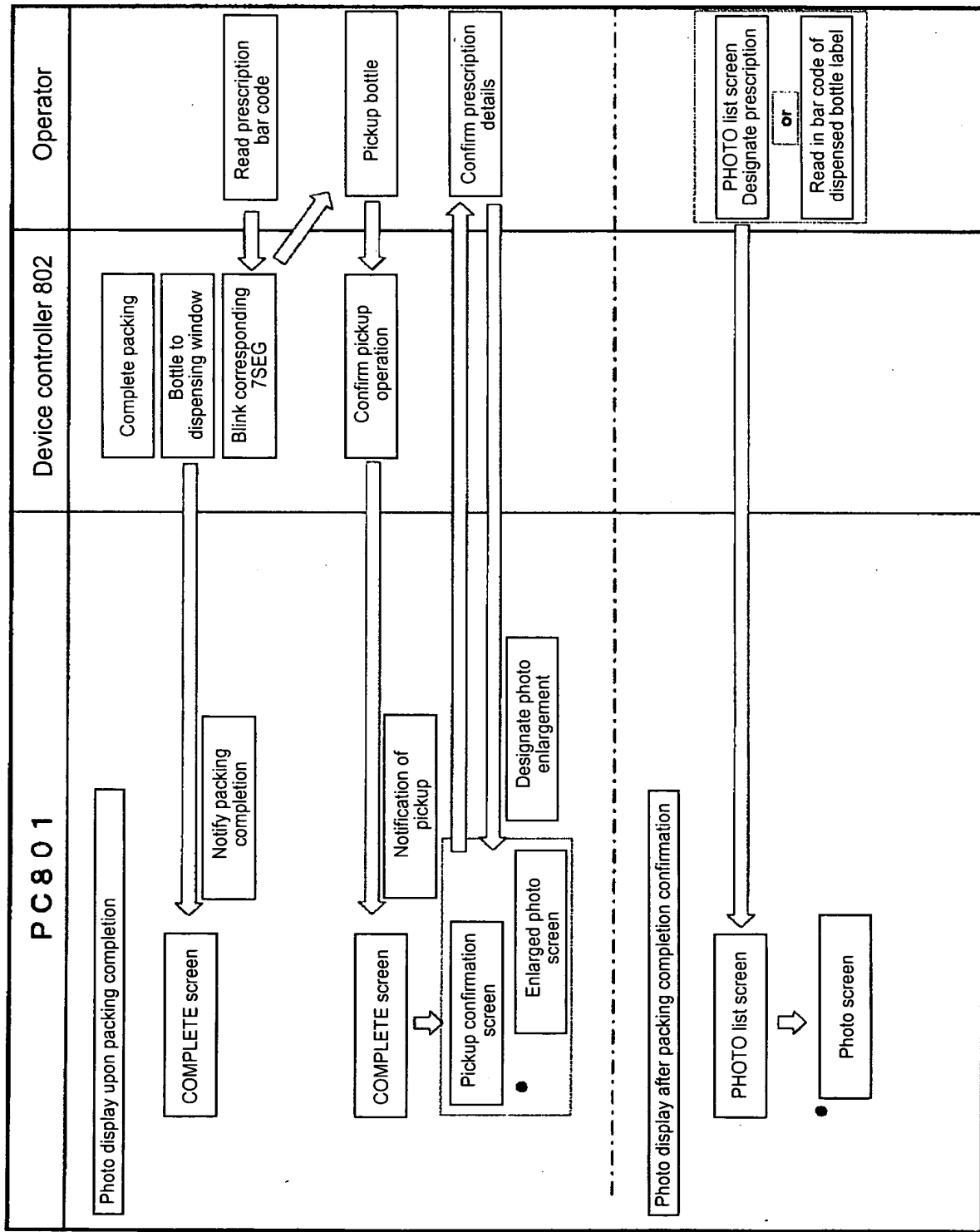
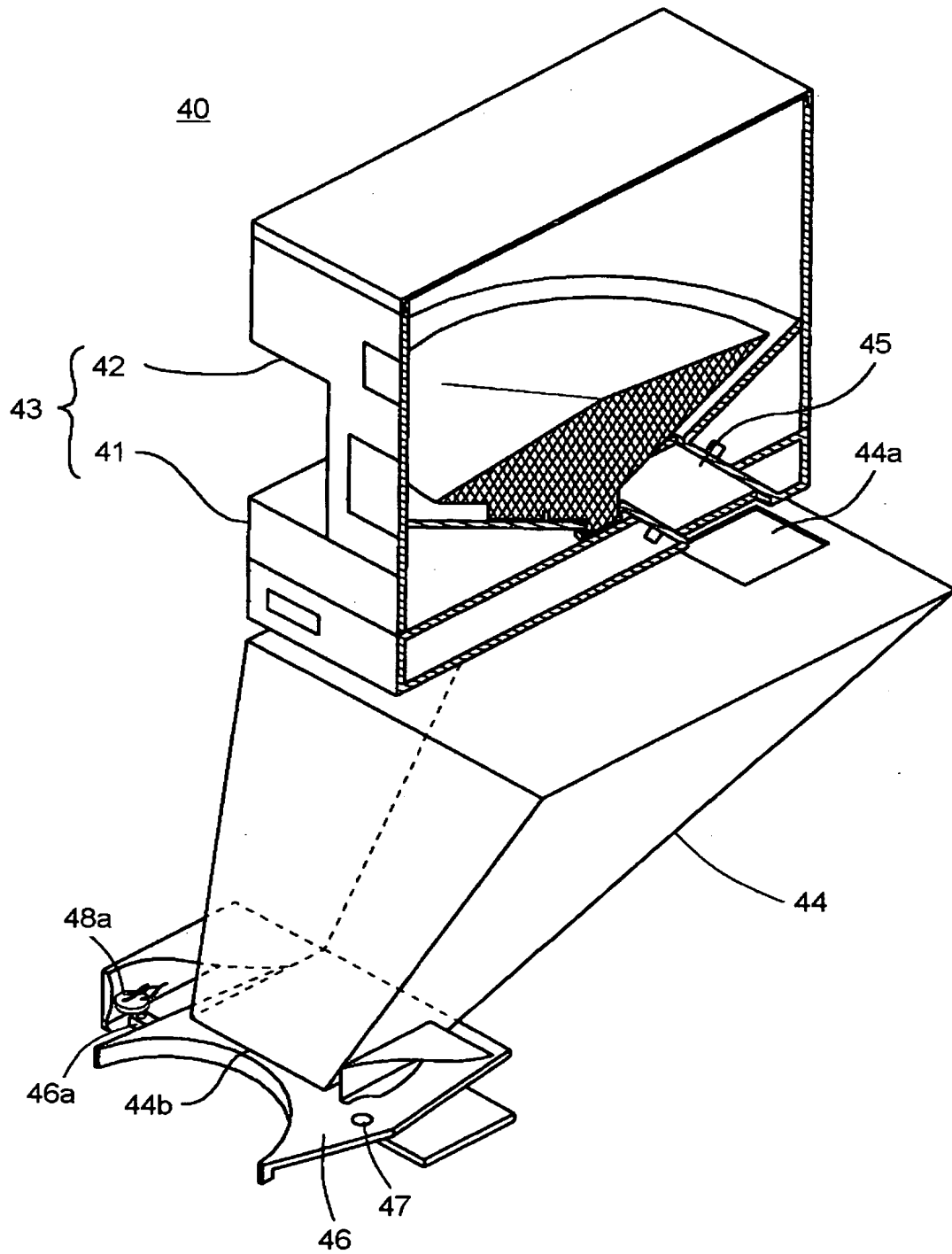


Fig.41A





*Fig.41B*

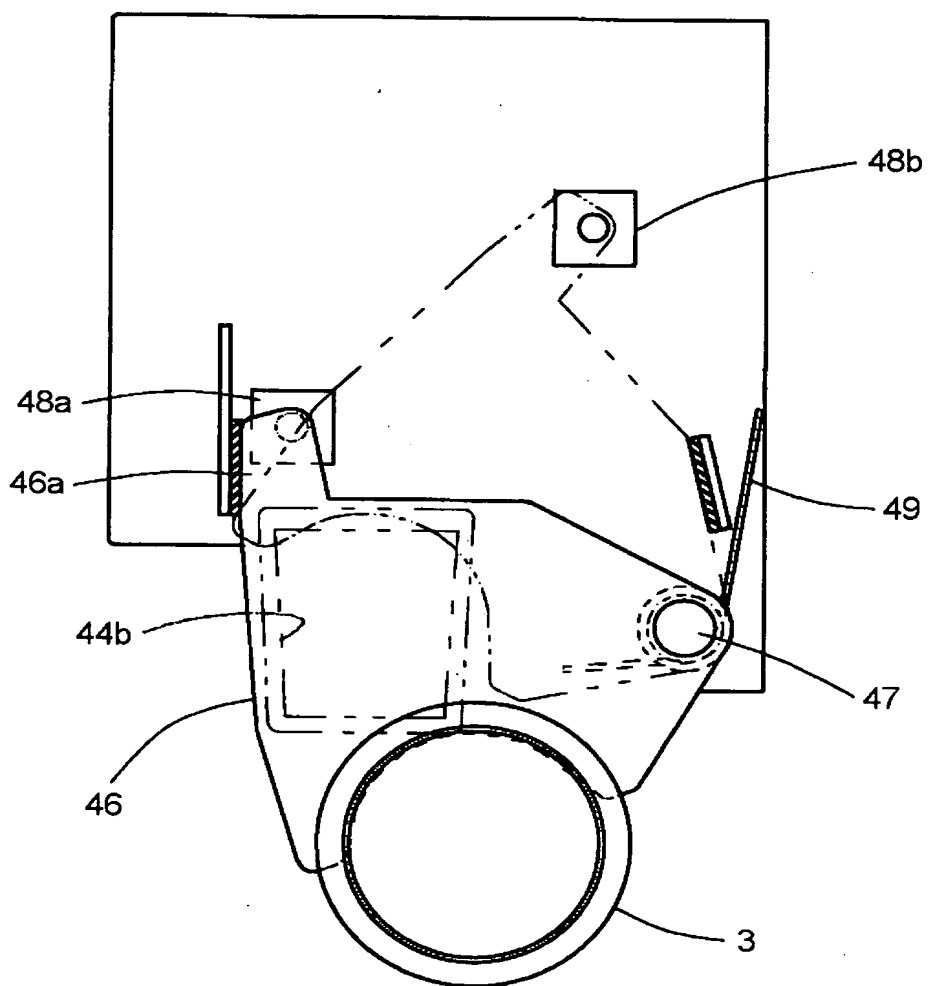
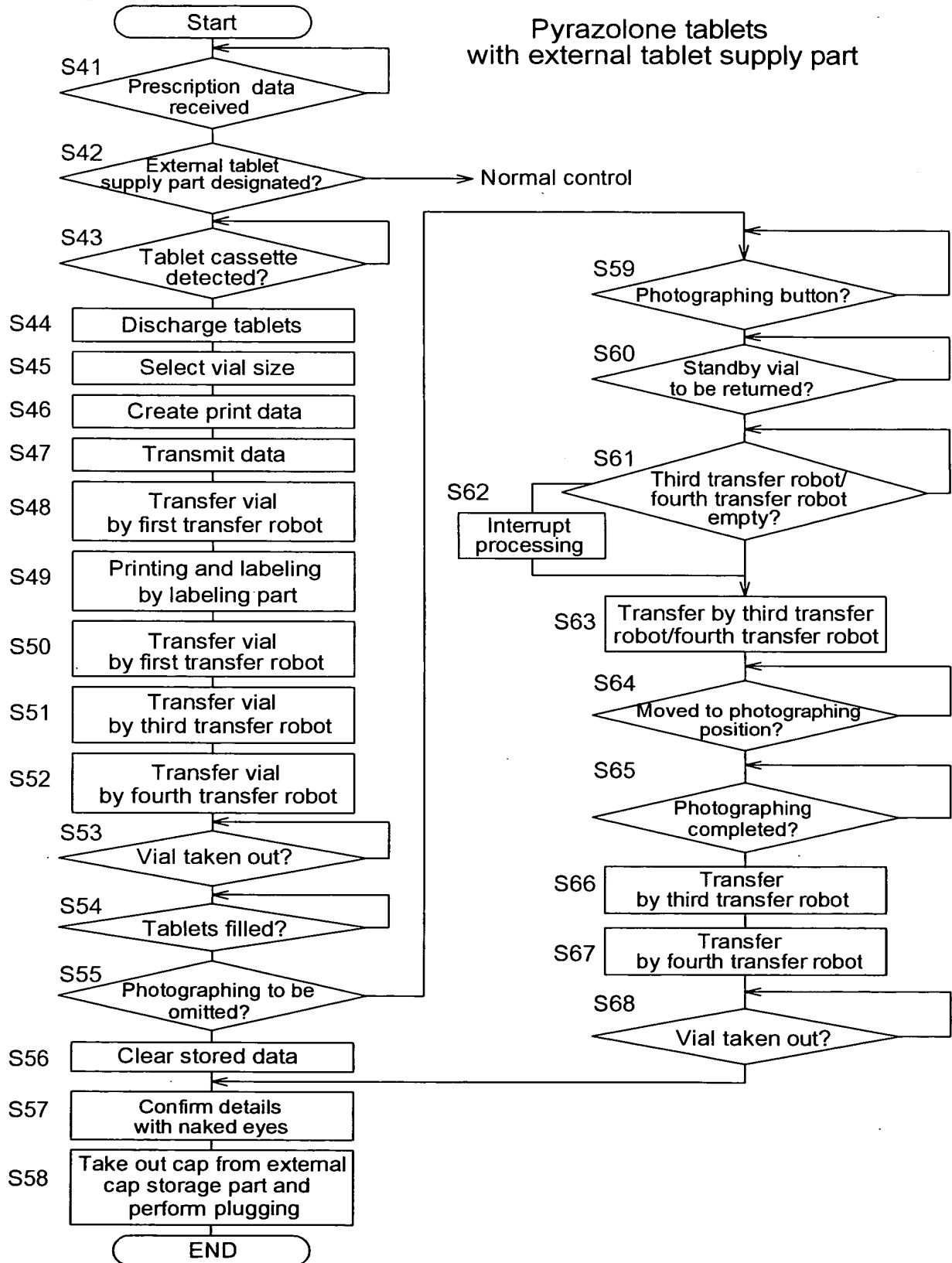
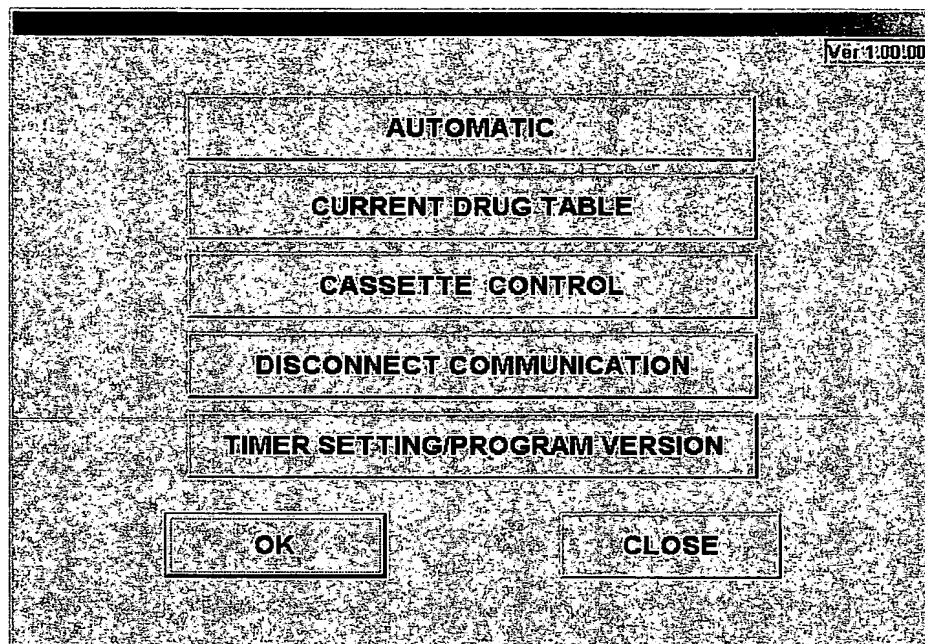


Fig.42



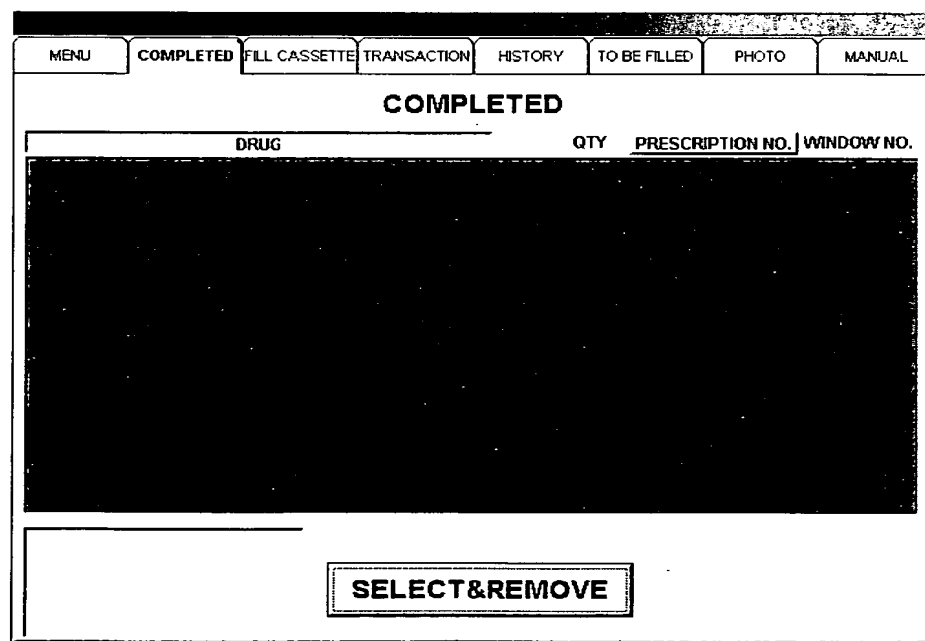
**Fig.43**

0.0 Main menu



**Fig.44**

1.0 Automatic dispensing screen



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**Fig.45**

1.1 In-process prescription list screen

MENU	COMPLETED	FILL CASSETTE	TRANSACTION	HISTORY	TO BE FILLED	PHOTO	MANUAL
------	-----------	---------------	-------------	---------	--------------	-------	--------

**COMPLETED**

DRUG	QTY	PREScription NO.	WINDOW NO.
TEST008	5	0000008	1

**SELECT&REMOVE**

**Fig.46**

1.1.1 Vial take-out error confirmation screen

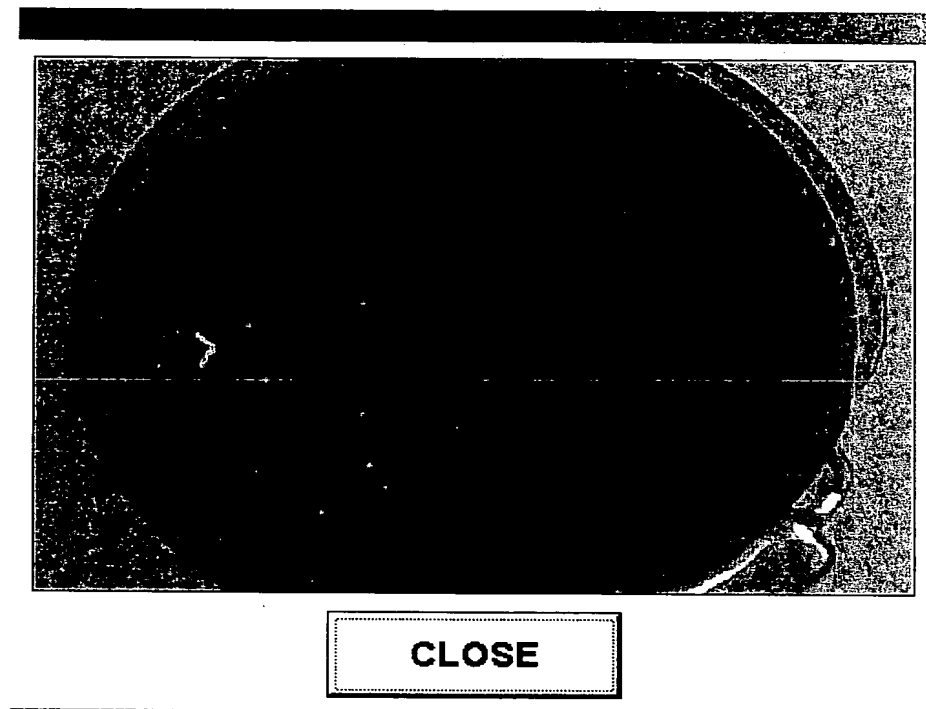
**PRESCRIPTION INFORMATION**

FOLLOWING PRESCRIPTION WILL BE DELETED FROM COMPLETED LIST

DRUG	QTY	PREScription#	LOCATION#
TEST008	0005	0000008 - 1	

**RETURN TO COMPLETED SCREEN**

**Fig.47** 1.1.1.1 Vial interior photo display device



**Fig.48** 1.2 Drug filling cassette specification screen

MENU	COMPLETED	ILL CASSETTE	TRANSACTION	HISTORY	TO BE FILLED	PHOTO	MANUAL
------	-----------	--------------	-------------	---------	--------------	-------	--------

ENTER CASSETTE NUMBER.

CASSETTE No.

7	8	9
4	5	6
1	2	3
0		
CLEAR		

OK
CANCEL
LIST
STOCKS

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**Fig.49**

1.2.1a New drug registration screen

**ENTER NEW DRUG**

CASSETTE No.  NDC CODE

CASSETTE No. of the same NDC #

DRUG NAME

MANUFACTURER

LOW LEVEL WARNING  Maximum number of Pills: 30DR  40DR  60DR

7	8	9	Q	W	E	R	T	Y	U	I	O	P
4	5	6	A	S	D	F	G	H	J	K	L	BS
1	2	3	(	)	Z	X	C	V	B	N	M	DEL
0			/	#	-	*	SHIFT	SPACE	ENTER			

ENTER CANCEL DATA BASE

**Fig.50**

1.2.1a.1 Drug list display screen

**DRUG DATA BASE**

NDC CODE	DRUG NAME	MANUFACTURE
000000001	TEST001	MCNEIL
000000002	TEST002	MCNEIL
000000003	TEST003	MCNEIL
000000004	TEST004	MCNEIL
000000005	TEST005	MCNEIL
000000006	TEST006	MCNEIL
000000007	TEST007	MCNEIL
000000008	TEST008	MCNEIL
000000009	TEST009	MCNEIL
000000010	TEST010	MCNEIL
000000011	TEST011	MCNEIL
000000012	TEST012	MCNEIL
000000013	TEST013	MCNEIL
000000014	TEST014	MCNEIL
000000015	TEST015	MCNEIL

ENTER CANCEL DELETE

**Fig. 51** 1.2.1a.1.1 NDC master drug delete screen

**DELETE DRUG FROM DATA BASE**

NDC #

DRUG NAME

MANUFACTURE

DO YOU WANT TO DELETE THE ABOVE DRUG FROM THE DRUG TABLE?

**Fig. 52** 1.2.1b NDC code check screen

MENU COMPLETED ALL CASSETT TRANSACTION HISTORY TO BE FILLED PHOTO MANUAL

CASSETTE #  NDC #  MANUFACTURER

DRUG  CASSETTE # of the same NDC #

NDC #  MANUFACTURER

DRUG

NDC #

SCAN BARCODE PACKAGE NDC OR ENTER NDC NUMBER MANUALLY. PRESS "OK" IF BOTH DRUG INFORMATION FIELDS MATCH. IF DRUG FIELDS DO NOT MATCH, CHECK THE DRUG MASTER TABLE.

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**Fig. 53**

1.2.1b.1 Tablet filling screen

MENU COMPLETED ALL CASSETTE TRANSACTION HISTORY TO BE FILLED PHOTO MANUAL

CASSETTE# 001 000000001 TEST001

CASSETTE#

LOT# EXPIRY DATE QTY PHARMACIST

01/11/2004

7 8 9 Q W E R T Y U I O P

4 5 6 A S D F G H J K L BS

1 2 3 ( ) Z X C V B N M DEL

0 . / # \* SHIFT SPACE ENTER

OK CANCEL

**Fig. 54**

1.2.1b.1.1 Filling confirmation screen

MENU COMPLETED ALL CASSETTE TRANSACTION HISTORY TO BE FILLED PHOTO MANUAL

CASSETTE # NDC # MANUFACTURER

002 000000002 MCNEIL

CASSETTE # of the same NDC #

DRUG

TEST002

LOT# EXPIRY DATE FILLED QTY PHARMACIST

AAA 2004/01 01/11/2004 100 ABC

Return cassette to motor base and press re-start to continue dispensing

RESTART CANCEL

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Fig. 55

1.2.2 Cassette list screen

CASSETTE#	NDC CODE	DRUG NAME
001	000000001	TEST001
002	000000002	TEST002
003	000000003	TEST003
004	000000004	TEST004
005	000000005	TEST005
006	000000006	TEST006
007	000000007	TEST007
008	000000008	TEST008
009	000000009	TEST009
010	000000010	TEST010
011	000000011	TEST011
012	000000012	TEST012

OK CANCEL

Fig. 56

1.2.3 Cassette-by-cassette tablet inventory list screen

CASSETTE#	DRUG	QTY
001	TEST001	0993
002	TEST002	0000
003	TEST003	0854
004	TEST004	0824
005	TEST005	1000
006	TEST006	307
007	TEST007	0047
008	TEST008	3759
009	TEST009	3363
010	TEST010	2077
011	TEST011	249
012	TEST012	0328
013	TEST013	0917
014	TEST014	439
015	TEST015	0293
016	TEST016	765

UPDATE CLOSE

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**Fig. 57**

1.2.3.1 Tablet inventory change screen

MENU COMPLETED FULL CASSETTE TRANSACTION HISTORY TO BE FILLED PHOTO MANUAL

CASSETTE # 005 NDC # 000000005

DRUG TEST005

CASSETTE # of the same NDC #

NOW STOCK 1000

NEW STOCK

OK CANCEL

7 8 9  
4 5 6  
1 2 3  
0 [Left Arrow] [Right Arrow]  
CLEAR

**Fig. 58**

1.3 Processed prescription list screen

MENU COMPLETED FULL CASSETTE TRANSACTION HISTORY TO BE FILLED PHOTO MANUAL

**TRANSACTION**

DRUG	QTY	PRESCRIPTION NO.	WINDOW NO.
TEST001	5	0000001 - 1	
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01
TEST003	5	0000003 - 1	01

REFILL VIAL

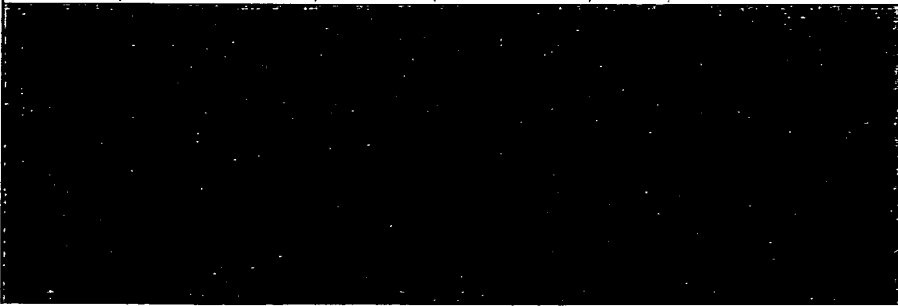
**Fig.59**

1.4 Filling history drug selection screen

MENU	COMPLETED	FILL CASSETTE	TRANSACTION	<b>HISTORY</b>	TO BE FILLED	PHOTO	MANUAL
<b>HISTORY</b>							
NDC#		DRUG					
000000001	TEST001						
000000002	TEST002						
000000003	TEST003						
000000004	TEST004						
000000005	TEST005						
000000006	TEST006						
000000007	TEST007						
000000008	TEST008						
000000009	TEST009						
000000010	TEST010						
000000011	TEST011						
000000012	TEST012						
000000013	TEST013						
000000014	TEST014						
000000015	TEST015						
000000016	TEST016						
<b>SELECT</b>							

**Fig.60**

1.4.1 Filling history display screen

MENU	COMPLETED	FILL CASSETTE	TRANSACTION	<b>HISTORY</b>	TO BE FILLED	PHOTO	MANUAL
<b>000000001 TEST001</b>							
CASSETTE#	LOT#	EXPIRY	DATE	QTY	PH		
001	TEST001	2004/04	05/27/2003	1000	ABC		
001	test01	2003/12	06/19/2003	1000	abc		
001	test02	2003/12	06/19/2003	1000	abc		
001	test001	2003/12	06/19/2003	1000	abd		
							
<b>SAVE</b>		<b>CLOSE</b>			<b>PRINT</b>		

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**Fig. 61** 1.5 Dispensing machine not-yet-transmitted  
prescription list screen

MENU	COMPLETED	FILL CASSETTE	TRANSACTION	HISTORY	TO BE FILLED	PHOTO	MANUAL
------	-----------	---------------	-------------	---------	--------------	-------	--------

TO BE FILLED		
DRUG	QTY	PRESCRIPTION#

**DELETE**

**Fig. 62** 1.6 Dispensed vial photo list screen

MENU	COMPLETED	FILL CASSETTE	TRANSACTION	HISTORY	TO BE FILLED	PHOTO	MANUAL
------	-----------	---------------	-------------	---------	--------------	-------	--------

DATE	TIME	SERIALNO	DRUG	QTY

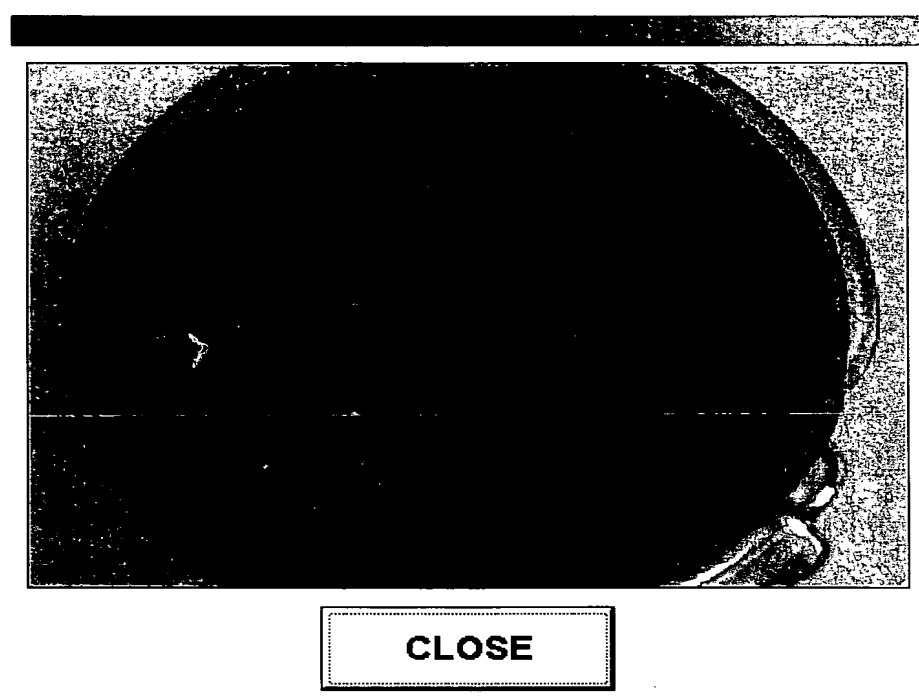
  

**SHOW**

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**Fig.63**

1.6.1 Photo display screen



**Fig.64** 1.7 Manual dispensing cassette designation screen

The screenshot displays a manual dispensing interface. At the top is a menu bar with the following options: MENU, COMPLETED, FILL CASSETTE, TRANSACTION, HISTORY, TO BE FILLED, PHOTO, and MANUAL. The "MANUAL" option is currently selected. Below the menu bar, the text "CASSETTE No." is followed by an empty input box. To the left of this input box is a numeric keypad with buttons for digits 0-9, a left arrow, and a right arrow. Below the keypad is a "CLEAR" button. To the right of the input box and keypad are three vertically stacked buttons labeled "OK", "CANCEL", and "LIST". The entire interface is enclosed in a thin black border.

**Fig.65**

1.7.1 Manual dispensed tablet quantity designation screen

MENU		COMPLETED		FILL CASSETTE		TRANSACTION		HISTORY		TO BE FILLED		PHOTO		MANUAL	
CASSETTE #				NDC #				MANUFACTURER							
001				000000001				MCNEIL							
CASSETTE # of the same NDC #															
<div> <div>7</div><div>8</div><div>9</div> <div>4</div><div>5</div><div>6</div> <div>1</div><div>2</div><div>3</div> <div>0</div><div>◀</div><div>▶</div> <div>CLEAR</div> </div> <div> <div>QTY</div><div>VIAL SIZE</div><div>VIAL QTY</div><div>CAP'S EXISTENCE</div> <div> <div>30DR</div><div>40DR</div><div>60DR</div> </div> <div> <div>OK</div><div>CANCEL</div> </div> </div> <div> <div>Maximum number of Pills</div> <div>30DR: 100</div> <div>40DR: 200</div> <div>60DR: 300</div> </div>															
<div> <div>DRUG</div> <div>TEST001</div> </div>															

**Fig.66**

1.7.2 Cassette list screen

CASSETTE #	NDC CODE	DRUG NAME
001	000000001	TEST001
002	000000002	TEST002
003	000000003	TEST003
004	000000004	TEST004
005	000000005	TEST005
006	000000006	TEST006
007	000000007	TEST007
008	000000008	TEST008
009	000000009	TEST009
010	000000010	TEST010
011	000000011	TEST011
012	000000012	TEST012
013	000000013	TEST013

OK

CANCEL

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Fig.67

2.0 Drug table list screen

**CURRENT DRUG TABLE MAINTENANCE**

CASSETTE	NDC CODE	DRUG NAME	MANUFACTURE
001	000000001	TEST001	MCNEIL
002	000000002	TEST002	MCNEIL
003	000000003	TEST003	MCNEIL
004	000000004	TEST004	MCNEIL
005	000000005	TEST005	MCNEIL
006	000000006	TEST006	MCNEIL
007	000000007	TEST007	MCNEIL
008	000000008	TEST008	MCNEIL
009	000000009	TEST009	MCNEIL
010	000000010	TEST010	MCNEIL
011	000000011	TEST011	MCNEIL
012	000000012	TEST012	MCNEIL
013	000000013	TEST013	MCNEIL
014	000000014	TEST014	MCNEIL
015	000000015	TEST015	MCNEIL

Fig.68

2.1 Deleted drug confirmation screen

**DELETE DRUG**

CASSETTE # 
 NDC # 
 CASSETTE # of the same NDC #

DRUG NAME

MANUFACTURE

DO YOU WANT TO DELETE THE ABOVE DRUG FROM THE DRUG TABLE?

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**Fig. 69**

3.0 Tablet cassette control screen

**Cassette Position Control**

**CASSETTE**

CASSETTE No.

**COUNTER**

<< CENTER >>

CASSETTE No.

SEARCH

7 8 9

4 5 6

1 2 3

0 < >

CLEAR

CLOSE

**Fig. 70**

4.0 Host disconnection screen

☒ Disconnect communication, delete all unfilled Rx data and close Vial Filling Application.

☐ Disconnect communication, return to COMPLETED screen and complete all unfilled Rx data remain in queue.

OK CANCEL

**BEST AVAILABLE COPY**



Fig.71

5.0 Date update time setting screen

MENU SET UP

Daily CLEAN UP

START TIME 17 37 00

PROGRAM VERSION

7 8 9  
4 5 6  
1 2 3  
0 ◀ ▶

OK  
CANCEL

Fig.72

5.1 Program version information display screen

PC			
USJ	Ver 1.00.00	D:\usj(D-CE^JfDf%efXfg)\Jui\USJ.EXE	2004/01/06 9:03:31
COMMPROG	VER 1.01.01	D:\usj(D-CE^JfDf%efXfg)\Jui\USJ.EXE	2004/01/06 9:03:31
GATEWAY	VER 1.01.01	D:\usj(D-CE^JfDf%efXfg)\Jui\USJ.EXE	2004/01/06 9:03:31
PRTWRT	VER 1.01.01	D:\usj(D-CE^JfDf%efXfg)\Jui\USJ.EXE	2004/01/06 9:03:31
CLEANUP	VER 1.01.01	D:\usj(D-CE^JfDf%efXfg)\Jui\USJ.EXE	2004/01/06 9:03:31
MACHINE			
			QUIT